

Volume

#

R0362

BOOK A-362

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190



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Township 43 S., Range 15 W.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.
_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.
_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.
_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190



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PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190



We, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190



We, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190



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Township 43 S., Range 10 W.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



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INDEX DIAGRAM.

Township 19 S., Range 7 E.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



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PRELIMINARY OATHS OF ASSISTANTS.

2

We, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



183

We, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



We, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



BOOK A-362

FIELD NOTES

RETRACEMENT
OF THE ~~SURVEY OF THE~~

PINE VALLEY GUIDE MERIDIAN

through

Township No. 43 South

Between Ranges Nos. 15 and 16 West.

Of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

Andrew J. Stewart Jr. and Leo A. Snow, United States Deputy Surveyors

their
Under ~~his~~ Contract No. 309, dated March 17, 1909. 120Retracement
~~Survey~~ commenced June 25, 1909. 120Retracement
~~Survey~~ completed June 25, 1909. 120

NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley Chainman

Samuel Brooks Chainman

John T. Jarvis Chainman

Henry Savage Chainman

George W. Womden Moundman

John A. Humphries Flagman

For preliminary affidavits see book "K" T. 43 S., R. 14 W.

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INDEX DIAGRAM.

Township....., Range.....

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Retracement of the

Pine Valley Guide Meridian through Tp. 43 S., bet. Rs. 15 and 16 W

Chains.

Survey commenced June 25, 1909, and executed with a W. and L. E. Gurley light mountain transit No. . . , with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and approved by the Surveyor General for Utah, on April 26, 1909.

I examine the adjustments of the instrument and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation I proceed as follows: At the cor. of secs. 25, 30, 31 and 36 on the E. Bdy. of Tp., hereinafter described; lat. $37^{\circ}02'N$ long. $113^{\circ}31'08''W$. I set off $37^{\circ}02'N$ on lat. arc; $23^{\circ}25'N$ on the decl. arc; and at 4h 32m p.m., l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground 5 chs. N. of the cor.

June 25, 1909.

June 26, 1909, At 1h 16m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the manual, and mark a point in the line thus determined on a wooden plug driven in the ground 5.00 chs. N. of cor.

At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}28.6'$ to the west and mark the point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of cor.; this mark falls 0.31 ins. east of the meridian determined with the solar.

At 8 h 2 m a.m., l.m.t., I set off $37^{\circ}02'N$ on the lat. arc; $23^{\circ}24'N$ on the decl. arc; and determine a meridian with the

Retracement of the

Pine Valley Guide Meridian through Tp. 43 S., Rs. 15 and 16 W. Con.

Chained.

solar, and mark a point there of on the stone already set set 5.00 chs. N. of the cor.; this mark falls 0.27 ins. east of the meridian determined by Polaris observation.

The solar apparatus by p.m., a.m. observations defines positions for meridians respectively about $0^{\circ} 16''$ west and $0^{\circ} 14''$ east of the meridian established by Polaris observation therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 2 m a.m., l.m.t. is $N 16^{\circ} 35' W.$, the angle thus determined gives the magnetic declination $16^{\circ} 35' E.$

Began at the cor. of secs. 25, 30, 31 and 36 which is a limestone $10 \times 7 \times 5$ ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Thence I run

South on range line between secs. 31 and 36.

40.07 Intersect $\frac{1}{4}$ sec. cor. which is a limestone $8 \times 6 \times 5$ ins. above ground firmly set and marked and witnessed as described by the surveyor general.

47.99 Intersect the Utah Arizona bdy. line 45.94 chs. east of the 25 mile cor. which is a limestone $10 \times 12 \times 10$ ins. above mound of stone marked and witnessed as described by the surveyor general; and 34.22 chs. W. of 26 mile cor., heretofore described. Set an iron post 3 ft. long 3 ins. in dia., 24 ins. in the ground for closing cor. of Tps. 43 S., Rs. 15 and 16 W. marked on brass cap

U T 43 S in N. half

Q C A in S. half;

R 15 W S 31 in NE., and

R 16 W S 36 in NW., quadrants; raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

Retracement of the

Pine Valley Guide Meridian Tp.43 S. bet. Rs.15 and 16 W.- Continued.

General Description.

For general description see notes of the subdivision of
T.43 S., R. 16 W.

Geo. A. Snow
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by.....

~~Leo A. Snow~~....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ~~Guide Meridian through Tps. 43 S., bet. Rs. 13 and 14 W., and Pine Valley Guide Meridian, through Tp. 43 S., bet. Rs. 15 and 16 W., Salt Lake Base and Meridian.~~

~~Hillman Dalley~~....., Chainman.

~~Samuel Brooks~~....., Chainman.

~~John T. Jarvis~~....., Chainman ~~XXXXXXXX~~

~~Henry Savage~~....., Chairman ~~XXXXXXXX~~

....., Axman.

....., Axman.

~~John A. Humphries~~....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted.....

~~Leo A. Snow~~....., United States Deputy Surveyor, in surveying all those parts or portions of the ~~Guide Meridian, through Tps. 43 S., bet. Rs. 13 and 14 W., and Pine Valley Guide Meridian, through Tp. 43 S., bet. Rs. 15 and 16 W.~~

..... of the Salt Lake Base and meridian, State of Utah....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.....

~~Hillman Dalley~~....., Chainman.

~~Samuel Brooks~~....., Chainman.

~~John T. Jarvis~~....., Chainman.

~~Henry Savage~~....., Chainman.

~~George W. Worthen~~....., Moundman.

....., Axman.

~~John A. Humphries~~....., Flagman.

Subscribed and sworn to before me this 27th

day of June 1909. 190x



Leo A. Snow

U.S. Deputy Surveyor.

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BOOK A-362

m. 73.

P.

FIELD NOTES

RETRACEMENT
OF THE SURVEY OF THE

SUBDIVISION

AND WEST BOUNDARY

of

Township No. 43 South, Range No. 16 West,

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew J. Stewart Jr. and Leo A. Snow, United States Deputy Surveyor, S

their

Under ~~his~~ Contract No. 309, dated March 17, 1909. 190

Retracement

~~Survey~~ commenced June 26, 1909. 190

Retracement

~~Survey~~ completed June 27, 1909. 190

Subv. 2-79-25 2.20-22

West Bay 47-64 41-70

FILED
JAN 25 1910
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NAMES AND DUTIES OF ASSISTANTS.

Hillman Dalley Chairman

Samuel Brooks Chairman

John T. Jarvis Moundman

Henry Savage Moundman

John A. Humphries Flagman

For preliminary affidavits see book "M" T. 43 S., R. 14 W.

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BOOK A-362

INDEX DIAGRAM.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



RETRACEMENT SUBDIVISION OF T. 43 S., R. 16 W.

Chains. Survey commenced June 26, 1909, and executed with a W. and L.E. Gurley light mountain transit No. , with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct , and was approved by the Surveyor General for Utah, on April 26, 1909.

At the cor. of secs. 25, 26, 35, and 36, which is a volcanic stone 8 x 8 x 6 ins. above ground, marked and witnessed as described by the surveyor general, I set off 37° 02' N. on the lat. arc; 23° 23' N. on decl. arc; and at 10 h. 02 m. a. m. l. m. t. determine a meridian with the solar.

Note: For complete test of instrument see notes of east bdy., which is the Pine Valley Guide Meridian, T. 43 S., Rs. 15 and 16 W. Thence I run

S. 0° 1' E. on retracement line bet. secs. 35 and 36,

40.10 Intersect the $\frac{1}{2}$ sec. cor., which is a volcanic stone 8 x 6 x 5 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

47.91 Intersect the Utah-Arizona Bdy. line 34.13 chs. west of ^{heretofore described} the 25 mile cor. Δ and 45.85 chs. east of the 24 mile cor., which is a limestone 28 x 12 x 10 ins. in mound of stone marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 35 and 36, marked on brass cap,

U T 43 S R 16 W in N. half, ,

C C A in S. half, .

S 35 in NW. and .

S 36 in NE. quadrants; raise a mound of stone

RETRACEMENT SUBDIVISION OF T. 43 S., R. 16 W.-Continued.

Chains. 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

June 26: At this cor. I set off $23^{\circ} 23' N.$ on decl. arc; and at 0 h. 2 m. p. m. l. m. t. observe the sun on the meridian; the resulting lat. is $37^{\circ} 01' N.$, which is the proper lat. nearly.

From the cor. of secs. 26, 27, 34, and 35, which is a limestone 8 x 6 x 5 ins. above ground, marked and witnessed as described by the surveyor general, I run

S. $0^{\circ} 01' E.$ on retracement line bet. secs. 34 and 35,

40.12 Intersect the $\frac{1}{4}$ sec. cor., which is a limestone 6 x 5 x 4 ins. above ground, firmly set, and marked and witnessed as described by the surveyor general.

47.92 Intersect the Utah-Arizona Boundary line 34.15 chs. west of the 24 mile cor., heretofore described, and 38.92 chs. east of the 23 mile cor., which is a limestone 10 x 16 x 7 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 34 and 35, marked on brass cap,

U T 43 S R 16 W in N. half,

C C A in S. half,

S 34 in NW., and S 35 in NE. quadrants; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

From the cor. of secs. 27, 28, 33, and 34, which is a limestone 9 x 8 x 7 ins. above ground, firmly set and marked and witnessed as described by the surveyor gen-

RETRACEMENT SURDIVISION OF T. 43 S., R. 16 W.-Continued.

Chains. eral I run

40.12 S.0° 02'E.on retracement line bet.secs.33 and 34,
Intersect the $\frac{1}{4}$ sec.cor., which is a limestone 7 x 5 x
4 ins.above ground, firmly set and marked and wit-
nessed as described by the surveyor general.

47.87 Intersect the Utah-Arizona Boundary line 41.23 chs.west
of the 23 mile cor., heretofore described, and 37.26
chs.east of the 22 mile cor., which is a limestone
12 x 11 x 6 ins.above ground, firmly set and marked
and witnessed as described by the surveyor general.
Set an iron post 3 ft.long, 2 ins.dia., 24 ins.in the
ground, for closing cor.of secs.33 and 34, marked on
brass cap,

U T 43 S R 16 W in N.half, N.E.

C C A in S.half,

S 33 in NW., and

S 34 in NE.quadrants; and raise a mound of
stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

Note: No change in topography from old notes.

June 26, 1909.

June 27, 1909: At 8 h. 03 m.a.m.l.m.t.I set off 37° 02'
on the lat.arc; 23° 21'N.on the decl.arc; and deter-
mine a meridian with the solar at the cor.of secs.28,
29,32, and 33, which is a limestone 8 x 7 x 5 ins.
above ground, marked and witnessed as described by
the surveyor general.

Thence I run

40.15 S.0° 03'E. on aretracement line bet.secs.32 and 33,
Intersect the $\frac{1}{4}$ sec.cor., which is a limestone 6 x 5 x
4 ins.above ground, firmly set and marked and witness-
ed as described by the surveyor general.

47.83 Intersect the Utah-Arizona Bdy.line 42.70 chs.west of

RETRACEMENT SUBDIVISION OF T. 43 S., R. 16 W.- Continued.

Chains. the 22 mile cor. heretofore described, and 37.44 chs. east of the 21 mile cor., which is a limestone 10 x 12 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 32 and 33, marked on brass cap,

U T 43 S R 16 W in N. half;

C. C. A in S. half;

S 32 in NW., and

S 33 in NE. quadrants; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

From the cor. of secs. 29, 30, 31, and 32, which is a limestone 8 x 6 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general, I run

S. 0° 03' E. on retracement line bet. secs. 31 and 32,

40.17 Intersect the $\frac{1}{2}$ sec. cor., which is a limestone 7 x 8 x 5 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

47.72 Intersect the Utah-Arizona Bdy. line 42.63 chs. west of the 21 mile cor., heretofore described; and 37.24 chs. east of the 20 mile cor., which is a limestone 12 x 10 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 31 and 32, marked on brass cap,

U T 43 S R 16 W on N. half;

C. C. A in S. half,

S 31 in NW., and

RETRACEMENT SUBDIVISION OF T. 43 S., R. 16 W.-- Continued.

Chains.

S 32 in NE. quadrants; raise a mound of stone 2 ft.
base $1\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

Geo. A. Snow

U.S. Deputy Surveyor.

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Retracement West Boundary of Township 43 South, Range 16 West.

Chains. Survey commenced June 27, 1909, and executed with a W. and L.E. Gurley light mountain transit, No. . with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah on April 26, 1909.

At the cor. of secs. 25, 30, 31, and 36, which is a limestone 7 x 9 x 5 ins., above ground, firmly set and marked and witnessed as described by the surveyor general, I set off 23° 21' N. on the decl. arc; and at 0 h. 3 m. p.m. l.m.t. observe the sun on the meridian, the resulting latitude is 37° 02' N. which is the proper latitude nearly. Note: For more complete test of instrument see notes on E. bdy., which is the Pine Valley Guide Meridian.

June 27, 1909: At the cor. of secs. 25, 30, 31, and 36, heretofore described, I set off 37° 2' N. on the lat. arc; 23° 21' N. on the decl. arc; and at 2 h. 3 m. p.m. l.m.t. obtain a meridian with the solar. Thence I run

South on retracement line bet. secs. 31 and 36,

40.22 Intersect the $\frac{1}{4}$ sec. cor., which is a limestone 8x6x4 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

47.64 Intersect the Utah Arizona Bdy. line 41.70 chs. west of the 20 mile cor., heretofore described.

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for the closing cor. of Tps. 43 S., Rs. 16 and 17 W. marked on brass cap,

U T 43 S on N. half,
C C A in S. half,
R. 16 W S 31 in NE! and
R 17 W S 36 in NW. quadrant; raise a mound of

Retracement West Boundary Tp. 43 South, Range 16 West.

stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

June 27, 1909.

Boundaries of Tp. 43 S., R. 16 W.

Latitudes, Departures, and Closing Errors.

Line Designated	Course	Distance chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
West Bdy. T. 43 S. R. 16 W.	North	47.64	47.64	.....	.....	.....
N. bdy. sec. 31	East	78.82	.....	.....	78.82	.....
N. bdy. sec. 32,	N. 89° 59' E.	80.00	.02	.....	80.00	.....
N. bdy. sec. 33	S. 89° 59' E.	79.90	.....	.02	79.90	.....
N. bdy. sec. 34,	S. 89° 59' E.	80.18	.....	.02	80.18	.....
N. Bdy. sec. 35	East	80.06	.....	.....	80.06	.....
N. bdy. sec. 36	N. 89° 56' E.	80.04	.10	.....	80.04	.....
East Bdy. Tp.	South	47.99	.....	47.99	.....	.....
Utah Ariz. bdy.	West	479.19	.....	.....	.....	479.19
Convergence					.06	
T o t a l s			47.76	48.03	479.06	479.19
				47.76		479.06
				.27		
Error in latitude,						.13.
Error in departure,						

General Description.

For general description see old notes.

Note:

There being no notary public, or other officer authorized to administer oaths, within a reasonable distance at the beginning or ending of the surveys executed by me under this contract; therefore, in order to save time and expense, I administer the preliminary and final oaths to my assistants myself.

Leo A. Swain

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

Leo ASnow _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision T.43 S., R.14 W., and T.43 S., R.16 W., Salt Lake Base and Meridian. showing the respective capacities in which they acted: "

Hillman Dalley _____, Chainman.

Samuel Brooks _____, Chainman.

John T. Jarvis _____, Moundman.

Henry Savage _____, Moundman.

_____ Axman.

_____ Axman.

John A. Humphries _____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

Leo A. Snow _____, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision T.43 S., R.14 W., and T.43 S., R.16 W. and retracement of West Boundary T. 43 S., R.16 W.

_____ of the Salt Lake Base and _____ meridian, _____ State _____ of Utah _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____ Utah _____

Hillman Dalley _____, Chainman.

Samuel Brooks _____, Chainman.

John T. Jarvis _____, Moundman.

Henry Savage _____, Moundman.

_____ Axman.

_____ Axman.

John A. Humphries _____, Flagman.

Subscribed and sworn to before me this 27th _____

day of June 1909. XXXX



Leo A. Snow

U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Leo A. Snow, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 17th day of March, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Subdivision of T.43 S., R.14 W. and T.43 S., R.16 W.; and retracement of West Boundary of T. 43 S., R. 16 W.

of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Leo A. Snow

United States Deputy Surveyor.

Subscribed by said Leo A. Snow, and sworn to before me }

this 17 day of January, 1909



John D. Woodbury
 Clerk Salt Lake Court

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 19, 1909

The foregoing field notes of the survey of the Subdivisional lines of fractional Township No. 43 South, Range No. 16 West of the Salt Lake Base and Meridian, Utah; and retracement of West Boundary of T.43 S., R. 16 W. of the Salt Lake Base and Meridian, Utah.

executed by Andrew J. Stewart Jr. and Leo A. Snow under ~~his~~ ^{their} contract No. 309, dated March 17, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-362

FIELD NOTES

RETRACEMENT
OF THE SURVEY OF THE

EAST BOUNDARY

OF

Township No. 43 South, Range No. 15 West

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Andrew J. Stewart Jr. and Leo A. Snow, United States Deputy Surveyors

Under ^{his} Contract No. 309, dated March 17, 1909.Retracement
Survey commenced June 30, 1909.Retracement
Survey completed July 1, 1909.

NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley	Chairman
---------------	----------

Hector McQuarrie	Chairman
------------------	----------

Edmund A. Hendrix	Moundman
-------------------	----------

John Stewart	Moundman
--------------	----------

Laurence Snow	Axman
---------------	-------

Ren Stewart	Flagman
-------------	---------

BOOK A-362

INDEX DIAGRAM.

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Maeser Dalley and Hector McQuarrie
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the ^{retracement} ~~survey~~ of ~~East bdy. T.43 S., R.15 W. Salt Lake Base and Meridian, Utah.~~

Maeser Dalley, Chainman.
Hector McQuarrie, Chainman.

Subscribed and sworn to before me this 30th
day of June, 1909.



Andrew J. Stewart
U.S. Deputy Surveyor.

WE, Edmund A. Hendrix and John Stewart
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the ^{retracement} ~~survey~~ of ~~East bdy. T.43 S., R.15 W. Salt Lake Base and Meridian, Utah.~~

Edmund A. Hendrix, Moundman.
John Stewart, Moundman.

Subscribed and sworn to before me this 30th
day of June, 1909.



Andrew J. Stewart
U.S. Deputy Surveyor.

~~xxx~~ I, Laurence Snow ~~and~~
do solemnly swear that ~~we~~ ^{me} will well and truly perform the duties of ~~axman~~ ^{my} in the establishment of corners and other duties, according to instructions given ~~us~~ ^{me} to the best of ~~our~~ ^{my} skill and ability, in the ^{retracement} ~~survey~~ of ~~East bdy. T.43 S., R.15 W. Salt Lake Base and Meridian, Utah.~~

Laurence Snow, Axman.
Axman.

Subscribed and sworn to before me this 30th
day of June, 1909.



Andrew J. Stewart
U.S. Deputy Surveyor.

I, Ren Stewart, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the ^{retracement} ~~survey~~ of ~~East bdy. T.43 S., R.15 W. Salt Lake Base and Meridian, Utah.~~

Ren Stewart, Flagman.

Subscribed and sworn to before me this 30th
day of June, 1909.



Andrew J. Stewart
U.S. Deputy Surveyor.

Retracement
East Boundary T.43 S., R.15 W.

Survey commenced June 30, 1909, and executed with a W. and L. E. Gurley light mountain transit, No. --, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 26, 1909.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established by Polaris observation, I proceed as follows:

At the cor/. of secs. 25, 30, 31, and 36, on E. bdy. of Tp., latitude $37^{\circ}02'11''$ N., longitude $113^{\circ}24'39''$ W., I set off $37^{\circ}02'11''$ N., on the lat. arc; $23^{\circ}11'11''$ N., on the decl. arc; and at 3 h 3 m p.m. l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

June 30, 1909.

July 1, 1909, At 0 h 56 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined on a wooden plug driven in the ground 5.00 chs. N. of the cor.

At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}28.6'$ to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of cor.; this mark falls 0.37 the insl. east of the mark determined with the solar.

2
Retracement

East Boundary T.42 S., R.15 W.-Continued.

At 8 h 3 m a m l m t , I set off $37^{\circ}02'N.$, on the lat. arc; $23^{\circ}09'N.$, on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.32 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'19''$ west and $0'17''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the transit are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a m is $N.16^{\circ}50'W.$, the angle thus determined, gives the mag. decl. $16^{\circ}50'E.$

Begin at the cor. of secs. 25, 30, 31, and 36, which is a limestone $6 \times 12 \times 4$ ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Thence I run

South, on range line bet. secs. 31 and 36.

40.00 Intersect $\frac{1}{4}$ sec. cor. which is a vol. stone $6 \times 5 \times 4$ ins. above ground firmly set and marked and witnessed as described by the surveyor general.

48.00 Intersect the Utah, Arizona Bdy. Line 48.32 chs. E. of the 31st mile cor. which is a vol. stone $11 \times 12 \times 11$ ins. above ground, and 31.00 chs. W. of 32nd mile post on said bdy. which is an iron post 2 ft. above ground, each being firmly set and witnessed as described by surveyor general. Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground for the closing cor. of Tps. 42 S., Rs. 14 and 15 W. marked on brass cap

U T 42 S in N. half

C C A in S. half,

R 14 W S 31 in NE., and

Retracement

East bdy. Tp. 43 S. R. 15 W. - Continued.

Chains.

R 15 W S 36 in NW. quadrant; dig pits 30x24x12 ins. crosswise on each line E. and W. 4 ft., and N. of post 8 ft. dist.; raise a mound of earth 5 ft. base $2\frac{1}{2}$ ft. high N. of cor.

Note: No change in topography from old notes.

Boundaries of Tp. 43 S. R. 15 W.

Latitudes departures and closing errors.

Line Designated.	Course.	Distance.	Latitudes.				Departures.	
			Chs.	N.	S.	E.	W.	
E. bdy. T. 43 S. R. 15 W.	North	48.00		48.00				
N. bdy. sec. 36	West.	80.00						80.00
N. bdy. sec. 35	N89°57'W.	80.00		.07				80.00
N. bdy. sec. 34	West	80.00						80.00
N. bdy. sec. 33	N89°58'W	80.00		.05				80.00
N. bdy. sec. 32	N89°58'W.	80.00		.04				80.00
N. bdy. sec. 31	N89°54'W.	84.24		.14				84.24
W. bdy. Tp.	South.	47.99			47.99			
U. & A. bdy. line	East	484.77				484.77		
Convergency								0.07
Totals				48.20 47.99	47.99	484.77 484.31	484.31	
Error in latitude				.21				
Error in departure						.46		

GENERAL DESCRIPTION.

For general description see notes of subdivision of this township.

Andrew Stewart Jr.
U.S. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew J. Stewart Jr. and Leo
A. Snow, United States Deputy Surveyors to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the
 retracement of the E. bdy. T. 43 S., R. 15 W., Salt Lake Base and Mer.
 showing the respective capacities in which they acted:

Maesser Dalley, Chairman.

Hector McQuarrie, Chairman.

Edmund A. Hendrix, Moundman.

John Stewart, Moundman.

Laurence Snow, Axman.

Axman.

Ren Stewart, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew J. Stewart Jr.

United States Deputy Surveyor, in surveying all
 those parts or portions of the retracement of the E. bdy. T. 43 S., R. 15 W.

of the Salt

Lake Base and meridian, State of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor

General for Utah

Hector McQuarrie, Chairman.

Maesser Dalley, Chairman.

Edmund A. Hendrix, Moundman.

John Stewart, Moundman.

Laurence Snow, Axman.

Axman.

Ren Stewart, Flagman.

Subscribed and sworn to before me this 3rd
 day of July, 1909.

SEAL

Andrew J. Stewart Jr.
 U.S. Deputy Surveyor

----- of the Salt Lake Base
and ----- meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for U t a h and in the specific manner described in the field notes, and that the foregoing are the original field notes of such ^{retracement.} survey.

Andrew J. Stewart Jr.
United States Deputy Surveyor.

11, 1910, 190X *Thomas Hull*

~~U. S. Surveyor-General~~
for Utah.


APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, April 19, 1911, KDX

The foregoing field notes of the ~~survey~~ ^{retracement} of the East Boundary of Township No. 43 South, Range No. 15 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew J. Stewart Jr. and Leo A. Snow
 their contract No. 309, dated March 17, 1909, having been
 critically examined, and the necessary corrections and explanations made, the said field notes, and the
 retracements thereof they describe, are hereby approved.

corrections and explanations made, the said field notes, and the
d. 
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-362

FIELD NOTES

FILED

JAN 25 1910

M. S. B.

OF THE SURVEY OF THE
RETRACEMENT
SUBDIVISION

of

Township No. 43 South, Range No. 15 West,

Of the Salt Lake Base and Meridian,
State of Utah.

AS SURVEYED BY

Andrew J. Stewart Jr. and Leo A. Snow, United States Deputy Surveyors

Under ^{their} ~~his~~ Contract No. 309, dated March 17, 1909. 120Retracement ~~Survey~~ commenced July 1, 1909. 120Retracement ~~Survey~~ completed July 3, 1909. 120

2-74-72

Sils.
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NAMES AND DUTIES OF ASSISTANTS.

Maeser Dalley Chairman

Hector McQuarrie Chairman

Edmund A. Hendrix Moundman

John Stewart Moundman

Laurence Snow Axman

Ren Stewart Flagman

For preliminary affidavits see book "E" T. 42 S., R. 13 W.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



Retracement

Subdivision of Tp. 43 S., R. 15 W.-

Chains.

Survey commenced July 1st, 1909, and executed with a W. and L.E. Gurley light mountain transit, No. _____, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined and tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 26th, 1909.

I examine the adjustments of the instrument and correct the level and collimation errors; then to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established on Polaris observation, I proceed as follows:
At the cor. of secs. 25, 26, 27 and 28 lat. $37^{\circ} 02' N.$; longitude $112^{\circ} 25' 44'' W.$ I set off $37^{\circ} 02' N.$, on the lat. arc; $28^{\circ} 08' N$ on the decl. arc, and at 3h 3m p.m., l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 1st, 1909.

July 2nd, 1909, At 6h 2.5m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined on a wooden plug driven in the ground 5.00 chs. N. of the cor.

7h 30m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 28.6'$ to the west and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of cor.; this mark falls 0.40 ins. east of the mark determined with the solar.

At 8h 4m a.m., l.m.t., I set off $37^{\circ} 02' N$ on the lat. arc; $28^{\circ} 08' N$ on the decl. arc; and mark the meridian determined

Retracement

~~Subdivision of Tp. 43 S. R. 15 W. - Continued.~~

Chains.

with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.37 ins. east of the meridian established with Polaris observation.

The solar apparatus by p.m., and a.m., observations defines positions for meridians respectively about 0' 21" west and 0' 19" east of the of the meridian established by Polaris observation; therefore I conclude that the adjustments of the transit are satisfactory.

The magnetic bearing of the meridian at 3h 30m a.m. is N 16° 50' W., the angle thus determined gives the mag. decl. as 16° 50' E.

Began at the cor. of secs. 25, 26, 25 and 26, which is a limestone 6x8x5 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Thence I run

S 0° 1' E. bet. bet. secs. 35 and 36.

40.01 Intersect $\frac{1}{4}$ sec. cor. which is a vol. stone 5x10x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

48.01 Intersect the Utah Arizona bdy. line 31.68 chs. west of the 31st mile post heretofore described, and 50.05 chs. east of the 30th mile post, a volcanic stone 10x14x14 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the closing cor. of secs. 25 and 26, marked on brass cap

U T43 S R15 W in N. half, and

A C C on S. half.

S 36 in NE. and

S 35 in NW. quadrant; dig pits 24x18x12 ins.

crosswise on each line, E. and W., 2 ft. and N. of

Retracement

Subdivision of Tp. 43 S.R. 15 W.- Continued.

Chains.

post 7 ft. dist.; raise a mound of earth 4 ft.

base 2 ft. high N. of cor.

July 2nd, 1909. At 4h 4m p.m., l.m.t., I set off $23^{\circ} 4m$ N. on the decl. arc and observe the sun on the meridian the resulting lat. is $37^{\circ} 01'$ which is the proper lat. nearly.

From the cor. of secs. 26, 27, 34 and 35 which is a volcanic stone 6x10x8 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

I run

S $0^{\circ} 1'$ E. bet. secs. 34 and 35.

40.00 Intersect $\frac{1}{4}$ sec. cor. which is a volcanic stone 6x12x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

48.02 Intersect the Utah Arizona bdy. line 30.02 chs. west of the 30th mile cor. heretofore described, and 49.97 chs. east of the 29th mile cor. a volcanic stone 12x12x11 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the closing cor. of secs. 34 and 35 marked on brass cap

U, T 43 S R 15 W, in N. half and

A C C in S. half.

S 35 in NE., and

S 34 in NW. quadrant; dig pits 24x18x12 ins.

crosswise on each line E. and W., 3 ft. and N.

of post 7 ft. dist.; raise a mound of earth

4 ft. base 2 ft. high N of cor.

Note: No change in topography from old notes.

July 2nd, 1909.

July 3, 1909. At 8h 4m a.m., l.m.t., I set off $23^{\circ} 00'$ N on the decl. arc; $37^{\circ} 02'$ N. on the lat. arc; and obtain a meridian with the solar at the cor. of secs. 27, 28, 33 and 34 which

Retracement

Subdivision of Tp.43 S. R. 15 W.- Continued.

Chains	
	<p>is a sandstone 6x10x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.</p> <p>Thence I run</p> <p>S 0°2' E. bet. secs. 33 and 34.</p>
40.04	<p>Intersect the $\frac{1}{4}$ sec. cor. which is a vol. stone 6x7x7 ins. above ground firmly set and marked and witnessed as described by the surveyor general.</p>
47.98	<p>Intersect the Utah Arizona bdy. line 30.13 chs. west of the 29th mile cor. heretofore described, and 50.23 chs. east of 28th mile cor, which is an iron post 2 ins. in dia., 24 ins. above ground firmly set and marked and witnessed as described by the surveyor general.</p> <p>Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the closing cor. of secs. 33 and 34 marked on brass cap</p> <p>U T 43 S R 15 W in N. half, and</p> <p>A C C on S. half.</p> <p>S 34 in NE.,</p> <p>S 33 in NW. quadrant; dig pits 24x18x12 ins. crosswise on each line E. and W. 3 ft. and N. of Post 7 ft. dist.; and raise a mound of earth 4 ft. base 2 ft. high N. of cor.</p> <hr/> <p>From the cor. of secs. 28, 29, 32 and 33 which is a limestone 6x12x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general,</p> <p>I run</p> <p>S 0° 3' E. bet. secs. 32 and 33.</p>
40.03	<p>Intersect the $\frac{1}{4}$ sec. cor. which is a limestone 6x6x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.</p>
47.96	<p>Intersect the Utah Arizona bdy. 29.94 chs. west of the</p>

Retracement

Subdivision of Tp. 43 S. R15 W.- Continued.

Chains.

28th mile cor. heretofore described, and 50.06 chs. east of the 27th mile cor. which is an iron post 2 ins. in dia., 24 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Set an iron post 3 ft. long; 2 ins. in dia., 24 ins. in the ground for the closing cor. of secs. 32 and 33, marked on brass cap

U T 43 S R 15 W in N. half, and

A C C in S. half.

S 33 in NE.; and

S 32 in NW., quadrant; dig pits 24x18x12 ins.

crosswise on each line E. and W. 3 ft. and N.

of post, 7 ft. dist.; raise a mound of earth 4 ft.

base 2 ft. high N. of cor.

July 3, 1909. At this cor. I set off $22^{\circ} 59'$ N. on the decl. arc; and at 4m p.m., l.m.t., observe the sun on the meridian the resulting latitude is $37^{\circ} 01'$ N which is the proper latitude nearly.

Note: No change in topography from old notes.

From the cor. of secs. 29, 30, 31 and 32 which is a limestone 6x7x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general,

I run

S $0^{\circ} 03'E$. bet. secs. 31 and 32.

40.05 Intersect the $\frac{1}{4}$ sec. cor. which is a limestone 6x8x6 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

47.95 Intersect the Utah Arizona bdy. line 20.05 chs. west of the 27th mile cor. heretofore described, and 50.10 chs. east of the 26th mile cor. which is an iron post 2 ins. in dia., 24 ins. above ground firmly set and marked and witnessed as described by the surveyor general.

Retracement

Subdivision of Tp. 43 S. R. 15 W.-- Continued.

Chains.

Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground for the closing cor. of secs. 31 and 32, marked on brass cap

U T 43 S R 15 W in N. half and

A C C. in S. half.

S 32 in NE., and

S 31 in NW. quadrant; dig pits 24x18x12 ins. cross-wise on each line E. and W. 3 ft. and N. of post 7 ft. dist., raise a mound of earth 4 ft. base 2 ft. high N. of cor.

Note: No change in topography from old notes.

July 3, 1909.

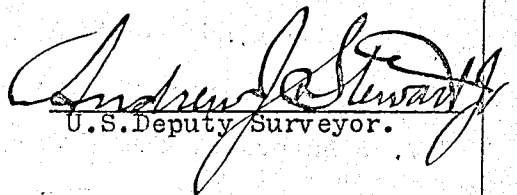
GENERAL DESCRIPTION.

This township is fairly level, and contains much good land for cultivation but is not sufficiently watered for irrigated crops.

No timber of any kind is to be found in the southern part covered in this survey.

Evergreen and sage with cactus and some salt brushes are the only kinds of undergrowth.

For more complete description see old notes.


U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew J. Stewart Jr.

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision T.42 S., R.13 W., T.43 S., R.13 W., and T.43 S., R.15 W. Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted:

Maesser Dalley....., *Chainman.*

Hector McQuarrie....., *Chainman.*

Edmund A. Hendrix....., *Moundman.*

John Stewart....., *Moundman.*

Laurence Snow....., *Arman.*

....., *Arman.*

Ren Stewart....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew J. Stewart Jr.

....., United States Deputy Surveyor, in surveying all those parts or portions of the Subdivision of T.42 S., R.13 W., T.43 S., R.13 W., and T.43 S., R.15 W.,

..... of the Salt Lake Base and meridian, State of Utah....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Maesser Dalley....., *Chainman.*

Hector McQuarrie....., *Chainman.*

Edmund A. Hendrix....., *Moundman.*

John Stewart....., *Moundman.*

Laurence Snow....., *Arman.*

....., *Arman.*

Ren Stewart....., *Flagman.*

Subscribed and sworn to before me this 3rd }
day of July 1909. 1909



Andrew J. Stewart Jr.

U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Andrew J. Stewart Jr., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 17th day of March 1909, ~~XXXX~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivision of T. 42 S., R. 13 W., T. 43 S., R. 13 W., and T. 43 S., R. 15 W.,

of the Salt Lake Base and 6th meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Andrew J. Stewart Jr.
United States Deputy Surveyor.

Subscribed by said Andrew J. Stewart Jr., and sworn to before me
this 6th day of April, 1910. ~~XXXX~~

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Thomas Hull
U. S. Surveyor General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 19, 1911

The foregoing field notes of the ~~survey~~ ^{retracement} of the Subdivisional lines of fractional township No. 43 South, Range No. 15 West of the Salt Lake Base and Meridian, Utah,

executed by Andrew J. Stewart Jr. and Leo A. Snow
under their contract No. 309, dated March 17, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ~~surveys~~ ^{retracements} they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in
, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-362

J.

FIELD NOTES

OF THE SURVEY OF THE

NORTH BOUNDARY

OF

TOWNSHIP NO. 43 SOUTH, RANGE NO. 9 $\frac{1}{2}$ WEST.

Of the Salt Lake Base and Meridian,

Utch.

AS SURVEYED BY

Andrew J. Stewart Jr. and Leo A. Snow, United States Deputy Surveyors,

Under ^{their} ~~the~~ Contract No. 309, dated March 17, 1909.

Survey commenced March 28, 1910.

Survey completed March 29, 1910.

NAMES AND DUTIES OF ASSISTANTS.

Joseph Stevens

Chairman

Clarence M. Englestead

Chairman

Ernest Stevens

Moundman.

Jesse Jepson

Flagman and Ax man.

Book D

M. Body 438 9½ W

1-00-00✓

37-64✓

1-37-64

closing

0-15-54✓

BOOK A-362

INDEX DIAGRAM.

Township 43 South, Range 9 $\frac{1}{2}$ West.

2	4				
6	5	4	3	2	1
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16	17	18	15	14	13
19	20	21	22	23	24
26	27	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, Joseph Stevens.....and Clarence M. Englestead.....
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the N. Bdy of frac1. T. 43 S. R. 9 1/2 W. of Salt Lake Base and Meridian, Utah.

Joseph Stevens....., Chainman.
Clarence M. Englestead, Chainman.

Subscribed and sworn to before me this 28 th }
day of March, 1910....., 1900 }



Andrew Stewart Jr
U.S. Deputy Surveyor.....

~~WE~~ I, Ernest Stevens.....
do solemnly swear that ~~I~~e will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ~~me~~s, to the best of ~~my~~ skill and ability, in the survey of The N. Bdy. of frac1. T. 43 S. R. 9 1/2 W. of Salt Lake Base and Meridian, Utah.

Ernest Stevens....., Moundman.
....., Moundman.

Subscribed and sworn to before me this 28 th }
day of March, 1910....., 1900 }



Andrew Stewart Jr
U.S. Deputy Surveyor.....

~~WE~~ I, Jesse Jepson.....
do solemnly swear that ~~w~~e will well and truly perform the duties of ~~a~~ximan in the establishment of corners and other duties, according to instructions given ~~me~~to the best of ~~my~~ skill and ability, in the survey of The N. Bdy. of frac1. T. 43 S. R. 9 1/2 W. of Salt Lake Base And Meridian, Utah.

Jesse Jepson....., ~~Flagman and~~ Axman.
....., Axman.

Subscribed and sworn to before me this 28 th }
day of March, 1910....., 1900 }



Andrew Stewart Jr
U.S. Deputy Surveyor.....

I,, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of
....., Flagman.

Subscribed and sworn to before me this }
day of, 190 }



North Bdy. T. 43 S., R. 9 $\frac{1}{2}$ W.

Survey commenced March 28, 1910, and executed with a Young and Sons light mountain transit No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs. The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 26, 1909.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation.

I proceed as follows:

At the cor. of Sp. 43 S., Rs. 9 $\frac{1}{2}$ and 10 W., which ^{is} an iron post, 3 ft. long, 3 ins. in dia., 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general, latitude 37°05'00"N., longitude 112°52'11"W., I set off 37°05'N., on the lat. arc; 2°58'N., on the decl. arc; and at 4 h 05 m p.m. l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of cor.

At 7 h 00 m p.m. l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug, set in the ground, 5.00 chs. N. of cor.

March 28, 1910.

March 22, 1910; At 7 h 30 m a.m. l.m.t., I lay off the azimuth of Polaris $1^{\circ}28'$ to the east, and mark a point in the meridian thus determined by a groove cut in the stone already set, 5.00 chs. N. of the cor.; this mark falls 0.54 ins. to the east of the meridian determined by the solar.

At 8 h 05 m a.m. l.m.t., I set off $37^{\circ}05'$ N., on the lat. arc; $5^{\circ}14'$ N., on the decl. arc; and mark the meridian determined by solar, by a cross on the stone already set, 5.00 chs. N. of the cor.; this mark falls 0.39 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defined position for meridian respectively about $0^{\circ}17'$ west and $0^{\circ}21'$ east of the meridian determined by Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory. The magnetic bearing of the meridian at 8 h 0 m a.m. l.m.t. is $N. 16^{\circ}50' W.$, the angle thus determined gives the mag. decl. $16^{\circ}50' E.$

End bet. sec. 6 and 31.

Over mountainous land; through scattering timber.
Desc. abruptly over sandstone ledges.

15.30 Bottom of hollow, 500 ft. below Tp. co r., course $N. 40^{\circ} W.$
Asc.

10.00 Top of ridge, 35 ft. above hollow, bears NE. and SW.
Desc.

Leave scattering timber, enter dense undergrowth, bears N. and S.

North Bdy. T. 43 S., R. 9 $\frac{1}{2}$ W. - Continued.

Chains.

- 25.00 Enter edge of flat canon, bears N. and S.
- 40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 31 in S. half, and S 6 in S. half; dig pits 18 x 18 x 12 ins. E. and W. of post $3\frac{1}{2}$ ft. dist.; and raise a mound of earth 3 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
- 50.00 Bottom of flat canon, 100 ft. below ridge, course N. Asc. gently.
- 80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, mkd. on brass cap,
- T 42 S S 31 in NW.
- R 9 $\frac{1}{2}$ W S 32 in NE.
- R 9 $\frac{1}{2}$ W S 5 in SE., and
- T 43 S S 6 in SW. quadrants; dig pits 18 x 18 x 12 ins. in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth 4 ft. base, 3 ft. high W. of cor.
- Land, mountainous.
- Soil, sandy and gravelly loam; 2d rate.
- Timber, cedar and long-leaf pine.
- Undergrowth, sagebrush and bitter brush.
- Mountainous land, or land covered with dense undergrowth
- 80.00 chs.
- March 29, 1910: At this cor. I set off $3^{\circ} 17' N.$ on the decl. arc; and at 12 h. 05 m. p. m. l. m. t., I observe the sun on the meridian; the resulting lat. is $37^{\circ} 05' N.$ which is the proper lat. nearly.
-
- East bet. secs. 5 and 32,
- Over mountainous land; through dense undergrowth. Asc. gently.
- 15.00 Leave canon bottom; begin abrupt ascent over ledges,

H. Bdy. T. 45 S., R. 9 $\frac{1}{2}$ W. - Continued.

Chains. bear N. and S.

26.50 Top of rocky ridge, 400 ft. above canon. bears N. and S.
Desc.29.00 Bottom of hollow. 40 ft. below ridge. course S. Asc.
Ascend.37.64 Intersect W. bay. of Tp. 43 S., R. 9 W. at 15.54 chs. N. of
cor. of secs. 7, 12, 13. and 18. which is an iron post 3
ins. dia., 12 ins. above ground, firmly set and marked
and witnessed as described by the surveyor general.
Set an iron post 3 ft. long. 2 ins. in dia., 24 ins. in
the ground. for closing cor. of secs. 5 and 22. mkd. on
brass capT 42 S R. 9 $\frac{1}{2}$ W S 32 in NW.

T 43 S R. 9 W C C S 7 in NE.

S 18 in SE.; and

T 43 S R 9 $\frac{1}{2}$ W S. 5 in SW. quadrants; from which

A yellow pine. 24 ins. in dia., bears S. 62° 45' W.

141 lks. dist., mkd. T 43 S R 9 $\frac{1}{2}$ W S. 5 B T

A yellow pine 14 ins. in dia., bears N. 48° 30' W.

100 lks. dist., mkd. T 42 S R 9 $\frac{1}{2}$ W S 32 B TI destroy all marks on the corner set for secs. 7, 12, 13,
and 18 pertaining to Tp. 43 S. R. 9 $\frac{1}{2}$ W.

Land, mountainous.

Soil, sandy and gravelly loam; 2d rate.

Timber, cedar and yellow pine.

Undergrowth, sage and bitter brush.

Mountainous land. or land covered with dense undergrowth
37.64 chs.

March 29, 1910, 3:30 p.m.

North Bdy. T. 43 S. R. 9 $\frac{1}{2}$ W. Continued.

Boundaries of T. 43 S. R. 9 $\frac{1}{2}$ W.
 Latitudes departures and closing errors.

Line designated	Course	Distance	Latitudes				Departures			
			N.	S.	E.	W.				
		Chs.	chs.	chs.	chs.	chs.				
N. Bdy. T. 43 S. R. 9 $\frac{1}{2}$ W. East		117.64				117.64				
E. Bdy T. 43 S. R. 9 $\frac{1}{2}$ W. South		457.84	457.84							
Utah Arizona Bdy. West		118.82							118.82	
W. Bdy. T. 43 S. R. 9 $\frac{1}{2}$ W. North		458.21	458.21							
Convergence						.14				
Totals			458.21	457.84	117.78	118.82				
			457.84			117.78				
Error in lat.			.37							
Error in Dep.						1.04				



U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew J. Stewart Jr.,
 _____, United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the N. Bdy.
of T. 43 S. R. 9 1/2 W. of Salt Lake Base and Meridian, Utah
 showing the respective capacities in which they acted:

Joseph Stevens _____, Chainman.

Clarence M. Englestead _____, Chainman.

Ernest Stevens _____, Moundman.

_____, Moundman.

Jesse Jepson _____, Flagman and Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew J. Stewart Jr.
 _____, United States Deputy Surveyor, in surveying all
 those parts or portions of the N. Bdy. of T. 43 S. R. 9 1/2 W.

 _____ of the Salt

Lake Base and _____ meridian, State _____ of Utah _____, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah _____

Joseph Stevens _____, Chainman.

Clarence M. Englestead _____, Chainman.

Ernest Stevens _____, Moundman.

Jesse Jepson _____, Flagman
 _____, Moundman
 _____, Axman.

_____ Axman.

_____ Axman.

_____ Flagman.

Subscribed and sworn to before me this 5 th }
 day of April, 1910 _____, 190



Andrew J. Stewart Jr.

U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Andrew J. Stewart Jr., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 17th day of March, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the N. Bdy. of T. 43 S. R. 9 1/2 W.

of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Andrew J. Stewart Jr.
United States Deputy Surveyor.

Subscribed by said Andrew J. Stewart Jr., and sworn to before me }
this 11th day of January, 1909



M. E. Katchmer Jr.
Clk 4th Dist. Court. Mahco. Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 19, 1911

The foregoing field notes of the survey of the North Boundary of Township No. 43 South, Range No. 9 1/2 West of the Salt Lake Base and Meridian, Utah.

executed by Andrew J. Stewart Jr. and Leo A. Snow
under ^{their} contract No. 309, dated March 17, 1909, ~~xxx~~, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-362

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FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION.

O F

Township No. 45 South, Range No. 9 $\frac{1}{2}$ West,

Of the Salt Lake Base and Meridian,

Utah.

AS SURVEYED BY

Andrew J. Stewart, Jr. & Leo A. Snow, United States Deputy Surveyors

Under their Contract No. 309, dated March 17, 1909, 120

Survey commenced March 29, 1910, 120

Survey completed April 5, 1910, 120

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13 08-73 89-69

Plat. V. G. B. 26-12

NAMES AND DUTIES OF ASSISTANTS.

Joseph Stevens, Chainman.

Clarence M. Englestead Chainman.

Ernest Stevens Houndman.

Jesse Jepson Axman and Flagman.

BOOK A-362

INDEX DIAGRAM.

Township No. 43 South, Range 9 1/2 West

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PRELIMINARY OATHS OF ASSISTANTS.

WE, E. Joseph Stevens and Clarence M. Englestead
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of
Subdivision of frac. 1. T. 43 S. R. 9 1/2 W. of Salt Lake Base and Meridian.
Utah.

Joseph Stevens, Chainman.
Clarence M. Englestead, Chainman.

Subscribed and sworn to before me this 28 th }
day of March, 1910. xm



Andrew Stewart Jr.

U.S. Deputy Surveyor.

WE, I. Ernest Stevens xm
do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given me to the best of myr skill and ability, in the survey of
Subdivision of frac. 1. T. 43 S. R. 9 1/2 W. of Salt Lake Base and Meridian.
Utah,

Ernest Stevens, Moundman.
Moundman.

Subscribed and sworn to before me this 28 th }
day of March, 1910. xm



Andrew Stewart Jr.

U.S. DEPUTY SURVEYOR.

WE, I. Jesse Jepson xm and Flagman
do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given me, to the best of myr skill and ability, in the survey of
Subdivision of frac. 1. T. 43 S. R. 9 1/2 W. of Salt Lake Base, and Meridian.
Utah.

Jesse Jepson, Axman, and
Flagman.
Axman.

Subscribed and sworn to before me this 28 th }
day of March, 1910. xm



Andrew Stewart Jr.

U.S. Deputy Surveyor.

I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190



Subdivision of T.43 S., R.9¹/₂ W.

Survey commenced March 29, 1910, and executed with a Young and Sons light mount in transit No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, April 26, 1909.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established by Polaris observation. I proceed as follows:

At the cor. of secs. 5, 6, 31 and 32, on N. hdy. of Tp. heretofore described, latitude $37^{\circ}05'00''$ N., longitude $112^{\circ}51'00''$ W., I set off $37^{\circ}05'$ N., on the lat. arc; $3^{\circ}23'$ N., on the decl. arc; and at 5 h 05 m p.m.l.m.t., I determine a meridian with the solar and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of cor. At 6 h 57 m p.m.l.m.t., I observe Polaris at western elongation in accordance with the Manuel and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

March 29, 1910.

March 30, 1910: At 7 h 30 m a.m.l., t., I lay off the azimuth of the Polaris $1^{\circ}28'$ to the east and mark a point in the meridian thus determined by a groove cut in the stone already set 5.00 chs. N. of the cor.;

Subdivision of T.43 S. R.91 W. -Continued.

Chains

this mark falls 0.34 ins. east of the meridian determined by the solar.

At 8 h 05 m a.m., l.m.t., I set off $37^{\circ}05'N.$, on the lat. arc; $5^{\circ}37'N.$, on the decl. arc; and mark the meridian determined by solar, by a cross on the stone, already set 5.00 chs. N. of the cor.; this mark falls 0.39 ins. east of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observations defines position for meridian respectively about $0^{\circ}17''$ west and $0^{\circ}21''$ east of the meridian determined by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m. l.t., is $N.16^{\circ}50'W.$, the angle thus determined gives the magnetic decl. $16^{\circ}50'E.$

$S.0^{\circ}1'E.$, bet. secs. 5 and 6.

Over rolling land in flat canon; through dense undergrowth. Asc. gently.

30.00 To a point about 15.00 chs. W. is the head of flat canon running N. and the head of Short Creek Canon running S.

37.00 Enter scattering timber, bears E. and W.

38.00 Top of ridge, 100 ft. above sec. cor., bears E. and W.
Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 6 in W half and S 5 in W half; from which

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W.- Continued.

Chains

A yellow pine, 26 ins. in dia., bears N. 89° 45' E.,
137 lks. dist. mkd. $\frac{1}{4}$ S 5 B T.

An oak, 5 ins. in dia., bears N. 45° 15' W., 108
lks. dist. mkd. $\frac{1}{4}$ S 6 B T.

41.15

Bottom of hollow, 30 ft. below ridge, course W.

Asc.

54.00

Top of ridge, 150 ft. above hollow, bears E. and W.

Desc.

80.00

Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the
ground, on solid rock bottom and surrounded by mound of
stone, for cor. of secs. 5, 6, 7 and 8. mkd. on brass
cap

T 43 S S 6 in NW.

R 9 $\frac{1}{2}$ W S 5 in NE.

S 8 in SE; and

S 7 in SW, quadrants; from which

A yellow pine, 24 ins. in dia., bears N. 21° E., 242
lks. dist. mkd. T 43 S R 9 $\frac{1}{2}$ W S 5 B T.

A yellow pine, 12 ins. in dia., bears S. 37° 15' E.
152 lks. dist. mkd. T 43 S R 9 $\frac{1}{2}$ W S 8 B T.

A yellow pine, 14 ins. in dia., bears S. 25° 45' W.,
129 lks. dist. mkd. T 43 S R 9 $\frac{1}{2}$ W S 7 B T.

A yellow pine, 10 ins. in dia., bears N. 51° 30' W.,
125 lks. dist. mkd. T 43 S R 9 $\frac{1}{2}$ W S 6 B T.

Land, mountainous.

Soil, gravelly and sandy loam; 2nd rate.

Timber, yellow pine, cedar and oak.

Undergrowth, sage brush and bitter brush.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

March 30, 1910: At this cor. I set off 3° 40' N., on the
decl. arc; and at 10 h 05 m p.m. l.m.t., I observe the
sun on the meridian, the resulting lat. is 37° 04' N., which
is the proper lat. nearly.

Subdivision of T.43 S., R.91 W.-Continued.

Chains	West on a random line bet.secs.6 and 7.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.24	Intersect W.bdy.of Tp.28 lks.S.of the cor.of secs.1,6,7 and 12.,which is an iron post,3 ins.in dia., 12 ins.above ground,firmly set and marked and witnessed as described by the surveyor general. Thence I run S.89°48'E.,on a true line bet.secs.6 and 7. Over mountainous land,Through heavy timber and scattering undergrowth. Desc.
17.00	Bottom of hollow, 200 ft.below sec.cor.,course S. Asc.
20.00	Top of ridge,150 ft.above hollow,bears N.and S. Desc.
30.00	Bottom of canon,150 ft.below ridge,(Short Creek Canon,) course S.20°W. Asc.
40.12	Set an iron post,5 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 6' in N half and S 7' in S half;from which A cedar,8 ins.in dia.,bears N.10°20'W.,38 lks.dist..mkd. $\frac{1}{4}$ S 6' B T. A yellow pine,7 ins.in dia.,bears S.35°35'E., 99 lks.dist..mkd. $\frac{1}{4}$ S 7' B T.
47.70	Top of abrupt ascent,bears N.and S.
51.00	Asc.more gradual.
52.00	Top of broad ridge,400 ft.above Canon,bears N.and S. Desc.
61.40	Bottom of Canon,130 ft.below ridge,course N. Asc.
62.80	Top of ridge,40 ft.above hollow,bears N.and S. Desc.
69.00	Bottom of hollow,100 ft.below ridge, course N.30°W. Asc.
76.20	Top of ridge,100 ft.above hollow,bears N.and S.

Subdivision of T.43 S., R.9¹ W., -Continued.

Chains Dese.

79.20 Bottom of hollow, 40 ft. below ridge, course N.70°W.

Asc. 37°04'N., on the lat. arc; 4°00'N., on the decl. arc; and

80.24 The cor. of secs. 5, 6, 7 and 8.

Land, mountainous

Soil, gravelly and sandy loam; 2nd rate,

Timber, cedar and yellow pine.

Undergrowth, sage brush.

Mountainous, or heavily timbered land, 80.24 chs.

March 30, 1910.

March 31, 1910: At 8 h 05 m a.m., l.m.t., I set off
37°04'N., on the lat. arc; 4°00'N., on the decl. arc; and
determine a meridian with the solar at the cor. of secs.
5, 6, 7 and 8.

Thence I run

East bet. secs. 5 and 8.

Over mountainous land; through scattering timber and
scattering undergrowth.

Asc. over smooth sandstone surface along side of canon.

8.40 Bottom of Canon, 30 ft. above sec. cor., course S.70°W.

Continue ascent.

14.40 Same canon, course N.40°W.

19.00 Begin more abrupt ascent over sandstone ledges, bears N
and S.

37.80 Intersect W. bdy. of T. 43 S., R. 9 W., at 15.35 chs. N.
of cor. of secs. 18 and 19, which is an iron post,

3 ins. in dia., 12 ins. above ground, firmly set and
marked and witnessed as described by the surveyor

general. All marks pertaining to T. 43 S. R. 9¹ W. destroyed.

Note: It is impossible to set cor. at proper point as it
falls on sloping sandstone ledge, therefore at cor.

Subdivision of T. 43 S., R. 9 $\frac{1}{2}$ W.-Continued.

Chains	<p>point I mark a cross on the ledge and at a point 10 lks.E.of the exact cor.point,I s</p> <p>Set an iron post,3 ft.long,2 ins.in dia.,12 ins.in the ground,on solid rock bottom and surrounded by mound of stone for witness cor.to closing cor.of secs.5 and 8..</p> <p>mkd.on brass cap T 43 S in N.</p> <p>S 50 in NW.</p> <p>W C CC S 18 in NE.</p> <p>R 9 W S 19 in SE;and</p> <p>R 9$\frac{1}{2}$ W S 8 in SW,quadrants;from which</p> <p>A yellow pine,16 ins.in dia.,bears S.76°W.,</p> <p>114 lks.dist..mkd W C T 43 S R 9$\frac{1}{2}$ W S 8 B T.</p> <p>A yellow pine,12 ins.in dia.,bears W51°15'W.,</p> <p>57 lks.dist..mkd. W C T 43 S R 9$\frac{1}{2}$ W S 5 B T.</p> <p>Land,mountainous.</p> <p>Soil,gravelly and sandy loam;2nd rate.</p> <p>Timber,cedar,pinon pine and yellow pine.</p> <p>Undergrowth,sage brush and bitter brush.</p> <p>Mountainous land,37.80 chs.</p> <hr/> <p>S.0°1'E.,bet.secs.7 and 8.</p> <p>Over mountainous land;through scattering timber and scattering undergrowth.</p> <p>Desc.</p> <p>1.00 Bottom of Canon,15 ft.below cor.,course N.60°W.</p> <p>Asc.</p> <p>8.00 Top of ridge,150 ft.above Canon,bears E.and N.W.</p> <p>Desc.</p> <p>24.00 Bottom of Canon,100 ft.below ridge,course N.30°W.</p> <p>Asc.</p> <p>40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 0 in W</p>
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Subdivision of T.4S., R.9E. W.- Continued.

Chains

half and S 8 in E half; from which

A pinon pine, 18 ins. in dia., bears S. 39° E.,

187 lks. dist. mkd. $\frac{1}{4}$ S 8 B T.

A pinon pine, 6 ins. in dia., bears S. 60° 30' W.,

209 lks. dist. mkd. $\frac{1}{4}$ S 7 B T.

64.50 Top of ridge, 400 ft. above Canon, bears N. 80° W. and
S. 80° E. Desc.

74.00 Bottom of hollow, 130 ft. below ridge, course W. Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground, for cor. of secs. 7, 8 17 and 18 mkd. on brass
cap

T 4S S 7 in NW.

R 9E W S 8 in NE.

S 17 in SE.; and

S 18 in SW, quadrants; from which

A yellow pine, 28 ins. in dia., bears N. 28° E.,

242 lks. dist. mkd. T 4S S R 9E W S 8 B T.

A yellow pine, 12 ins. in dia., bears S. 29° E.,

74 lks. dist. mkd. T 4S S R 9E W S 17 B T.

A yellow pine, 12 ins. in dia., bears S. 74° 15' W.

181 lks. dist. mkd. T 4S S R 9E W S 18 B T.

A pinon pine, 6 ins. in dia., bears N. 30° 30' W.,

113 lks. dist. mkd. T 4S S R 9E W S 7 B T.

Land, mountainous.

Soil, sandy and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine and yellow pine.

Undergrowth, sage brush.

Mountainous land, 80.00 chs.

March 31, 1910: At this cor. I set off 4° 03' N., on the decl.
arc. and at 9 h 05 m a.m., l.m.t., I observe the sun
on the meridian, the resulting lat. is 37° 03' N.,
which is the proper lat. nearly.

Subdivision of T.42.S., R.91 W. - continued.

Chains	N.89°48'W., on a random line bet. secs. 7 and 18.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect the W. bdy. of Tp. 7 lks. N. of the cor. of secs. 7, 12, 13 and 18, which is an iron post, 3 ins. in dia., 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
	Thence I run
	S.89°51'E., on a true line bet. secs. 7 and 18.
	Over mountainous land; through heavy timber and scattering undergrowth.
	Desc.
4.00	Bottom of Short Creek Canon, 150 ft. below Tp. cor., course S.10°W.
	Asc.
10.50	Top of rocky ridge, 450 ft. above Canon, bears N. and S.
	Desc.
17.20	Bottom of Canon, 350 ft. below ridge, course N.10°W.
	Asc. over ledges.
40.10	Top of ridge, 800 ft. above Canon, bears N.20°W. and S.20°E.
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 7 in N half and S 18 in S half; from which
	A yellow pine, 15 ins. in dia., bears N.0°15'E., 159 lks. dist. mkd. $\frac{1}{4}$ S 7 B T.
	A pinon pine, 10 ins. in dia., bears S.57°45'W., 69 lks. dist. mkd. $\frac{1}{4}$ S 18 B T.
	Desc.
52.00	Bottom of deep gorge, 400 ft. below ridge, course N.20°W.
	Asc.
80.20	The cor. of secs. 7, 8, 17 and 18.
	Land, mountainous.
	Soil, sandy and rocky; 2nd and 4th rate.
	Timber, cedar, pinon pine and yellow pine.

Subdivision of T.43 S., R.9 W. - Continued.

Chains

Undergrowth, sage brush.

Mountainous or heavily timbered land, 80.20 chs.

March 31, 1910.

April 1, 1910: At 8 h 04 m a.m., l.m.t., I set off $37^{\circ}03'$

N., on the lat. arc; $4^{\circ}23'N.$, on the decl. arc; and determine
a meridian with the solar, at the cor. of secs. 7, 8,
17 and 19.

Thence I run

East bet. secs. 8 and 17.

Mountainous, land; through scattering timber and scatter-
ing undergrowth.

34.00 Top of ridge, 400 ft. above sec. cor. bears N. and $S. 20^{\circ}W.$ Desc.

37.60 Intersect W. bdy. 43 S., R. 9 W., 15.50 chs. N. of the cor. of
secs. 19 and 30 which is an iron post, 5 ins., in dia.,
12 ins. above the ground, firmly set and marked and wit-
nessed as described by the surveyor general. All marks
pertaining to T. 43 S. R. 9 W. destroyed.
Set an iron post, 5 ft. long, 2 ins. in dia., 24 ins. in the
ground for closing cor. of secs. 8 and 17 mtd. on brass
cap T. 43 S in N.

S. 8 in NW.

C C S 19 in NE.

R 9 W S 30 in, SE.; and

R $9\frac{1}{2}W$ S 17 in SW quadrants; From whichA yellow pine, 16 ins. in dia., bears $S. 50^{\circ}30'W.$ 83 lks. dist. mtd. T 43 S R $9\frac{1}{2}W$ S 17 B T.A yellow pine, 24 ins. in dia., bears $N. 17^{\circ}W.$,78 lks. dist. mtd. T 43 S R $9\frac{1}{2}W$ S 8 B T.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar, pinon pine and yellow pine.

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W. - Continued.

Chains

Undergrowth, sage brush and bitter brush.

Mountainous land, 57.60 chs.

S.0°1'E., bet. secs. 17 and 18.

Over mountainous land; through heavy timber.

Asc.

6.50 Top of ridge, 60 ft. above sec. cor., bears E. and W.

Desc.

22.00 Bottom of hollow, 250 ft. above bridge, course W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. .mkd. on brass cap $\frac{1}{4}$ S 18 in W half and S 17 in E half; from which

A yellow pine, 14 ins. in dia., bears N.86°0'E.,

85 lks. dist. .mkd. $\frac{1}{4}$ S 17 B T.

A yellow pine, 18 ins. in dia., bears S.17°30'W.,

70 lks. dist. .mkd. $\frac{1}{4}$ S 18 B T.

40.80 Top of ridge, 150 ft. above hollow, bears E. and W.

52.00 Head of canon 50 ft. below ridge, course N.40°W. Desc.

74.50 Divide bet. Short Creek & Cottonwood Canyons bears NE. & SW.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on solid rock bottom and surrounded by mound of stone, for cor. of secs. 17, 18, 19 and 20 .mkd. on brass cap

T 43 S S 18 in EW.

R 9 $\frac{1}{2}$ W S 17 in NE.

S 20 in SE; and

S 19 in SW, quadrants; from which

A yellow pine, 8 ins. in dia., bears N.32°20'E.,

327 lks. dist. .mkd. T 43 S R 9 $\frac{1}{2}$ W S 17 B T.

A yellow pine, 7 ins. in dia., bears S.14°40'E.,

397 lks. dist. .mkd. T 43 S R 9 $\frac{1}{2}$ W S 20 B T.

Subdivision of T. 43 S., R. 9 $\frac{1}{2}$ W.- Continued.

Chains.	<p>A yellow pine, 10 ins.in dia., bears S.30° W. 144 lks.dist., mkd. T 43 S R 9$\frac{1}{2}$ W S 19 B T</p> <p>A yellow pine 10 ins.in dia., bears N.25° 30' W. 57 lks.dist., mkd.T 43 S R 9$\frac{1}{2}$ W S 18 B T</p> <p>Land, mountainous.</p> <p>Soil, gravelly; 2d rate.</p> <p>Timber, cedar, pinon pine, and yellow pine.</p> <p>Undergrowth, sagebrush and bitter brush.</p> <p>Mountainous land 80.00 chs.</p> <p>April 1, 1910: At this cor.I set off 4° 26'N.on decl. arc; and at 0 h. 04 m.p.m.l.m.t., observe the sun on the meridian; the resulting lat.is 37° 02'N.</p>
40.00	<p>N.89° 51'W.on random line bet.secs.18 and 19, Set temp.$\frac{1}{4}$ sec.cor.</p>
80.16	<p>Intersect E.bdy.T.43 S., R. 10 W. 11 lks.S.of the cor. of secs.13,18,19, and 24, which is an iron post, 3 ins. dia., 12 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.</p> <p>Thence I run</p> <p>S.89° 46'E.on a true line bet.secs.18 and 19, Over mountainous land; through heavy timber.</p> <p>Asc.</p>
2.40	<p>Top of ridge, 60 ft.above sec.cor.. bears N. and S. Desc.</p>
15.50	<p>Bottom of canon, 300 ft.below ridge, course N.20° W. Asc.abruptly.</p>
40.08	<p>Set an iron post 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., mkd.on brass cap $\frac{1}{4}$ S 18 in N. half, and S 19 in S.half; from which</p>

Subdivision of T. 43 S., R. 9¹ W.- Continued.

Chains.	<p>A pinon pine, 14 ins.in dia., bears N.29° 30'E.</p> <p>96 lks.dist.. mkd. $\frac{1}{4}$ S 18 B T</p> <p>A pinon pine, 8 ins.in dia., bears S.45° W. 31 lks.</p> <p>dist.. mkd. $\frac{1}{4}$ S 19 B T</p>
41.00	<p>Top of ridge, 500 ft.above canon, bears N.30° W. and S.</p> <p>30° E.</p> <p>Desc.</p>
47.00	<p>Head of hollow, 40 ft.below ridge, course N.20° W.</p> <p>Asc.gently.</p>
75.00	<p>Top of ridge, 300 ft.above hollow, bears NE. and SW.</p> <p>This is the Divide Ridge bet.Short Creek and Cottonwood</p> <p>Canons.</p>
80.16	<p>The cor.of secs.17,18,19, and 20.</p> <p>Land, mountainous.</p> <p>Soil, gravelly and rocky; 2nd and 4th rate.</p> <p>Timber, cedar, pinon pine, and yellow pine.</p> <p>Mountainous, or heavily timbered land 80.16 chs.</p> <p>April 1, 1910.</p>
	<p>April 2, 1910: At 8 h. 04 m.a.m.1.m.t.I set off 37° 02'</p> <p>N.on the lat.arc; 4° 46'N.on the decl.arc; and deter-</p> <p>mine a meridian at the cor.of secs.17,18,19, and 20.</p> <p>Thence I run</p> <p>East on a true line bet.secs.17 and 20,</p> <p>Over mountainous land; through scattering timber. Desc.</p> <p>abruptly over sandstone ledges.</p>
31.00	Foot of ledges, bears N.20° E. and S.20° W.
34.50	<p>Enter bottom of Cottonwood Canon, bears N.40° E. and S.</p> <p>20° W. This canon is 800 ft.below sec.cor. Desc. gent-</p> <p>ly; through heavy timber.</p>
37.78	Intersect W.bdy.of T.43 S., R. 9 W., at point 15.41 chs.

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W.-Continued.

N. of the cor. of secs. 30 and 31, which is an iron post, 3 ins. in dia., 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general. All marks pertaining to T. 43 S. R. 9 $\frac{1}{2}$ W. destroyed. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for closing cor. of secs. 17 and 20..mkd. on brass cap T 43 S in N.

S 17 in NW/

C C S 30 in NE.

R 9 W S 31 in SE; and

R 9 $\frac{1}{2}$ W S 20 in SW; quadrants; from which

A yellow pine, 24 ins. in dia., bears S. 86° 15' W.,

549 lks. dist..mkd. T 43 S R 9 $\frac{1}{2}$ W S 20 B T.

A yellow pine, 24 ins. in dia., bears N. 82° W.

488 lks. dist..mkd. T 43 S R 9 $\frac{1}{2}$ W S 17 B T.

Land, mountainous.

Soil, sandy and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine and yellow pine.

Mountainous, or heavily timbered land, 37.78 chs.

S. 0° 1' E., bet. secs. 19 and 20.

Over mountainous land; through scattering timber.

Desc. over smooth sandstone ledges.

35.00 Bottom of hollow, 250 ft. below sec. cor., course S. 40° E.
Asc.

37.25 Top of spur, 100 ft. above hollow, bears NE. and SW'.
Asc. along E slope of ledges.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 19 in W half and S 20 in E half; from which

A yellow pine, 16 ins. in dia., bears N. 82° E.

54 lks. dist..mkd. $\frac{1}{4}$ S 20 B T.

A yellow pine, 14 ins. in dia., bears S/59° W.,

Subdivision of T.45 S., R.9 $\frac{1}{2}$ W.-Continued

Chains

45 lks.dist..mkd. $\frac{1}{2}$ S 19 B T.

40.50 Head of hollow, 50 ft. below ridge, course E.

Asc.

43.00 Top of spur, 20 ft. above hollow, bears E. and W.

Desc.

64.00 Head of hollow, 200 ft. below ridge, course E.

Asc.

76.00 Top of ridge, 100 ft. above hollow, bears E. and W.

Desc.

79.00 Bottom of hollow, 50 ft. below ridge, course E.

Asc.

80.00 Point for cor. falls on sloping ledge where it is impossible to set cor. therefore I mark a cross at the exact cor. point and at a point 40 lks. E. and 20 lks. S. of the cor. point I

Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground on solid rock bottom and surrounded by mound of stone for witness to cor. of secs. of secs. 19, 20, 29 and 30..mkd. on brass cap

T 43 S S 19 in NW.

R 9 $\frac{1}{2}$ W W C S 20 in NE.

S 29 in SE; and

S 30 in SW. quadrants; from which

A yellow pine, 5 ins. in dia., bears N. 44° E., 23 lks. dist..mkd. W C T 43 S R 9 $\frac{1}{2}$ W S 20 B T.

A yellow pine, 14 ins. in dia., bears S. 50° 15' E., 47 lks. dist..mkd. W C T 43 S R 9 $\frac{1}{2}$ W S 29 B T.

A yellow pine, 12 ins. in dia., bears S. 65° 45' W., 103 lks. dist..mkd. W C T 43 S R 9 $\frac{1}{2}$ W S 30 B T.

A yellow pine, 8 ins. in dia., bears N. 77° 36' W., 225 lks. dist..mkd. W C T 43 S R 9 $\frac{1}{2}$ W S 19 B T

Land, mountainous.

Soil, sandy and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine and yellow pine.

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W.-Continued.

Chains

Mountainous land, 80.00 chs.

April 2 1910: At this cor. I set off $4^{\circ}49'N.$, on the decl. arc; and 10 h 04 m p.m., l.m.t. I observe the sun on the meridian, the resulting lat. is $37^{\circ}02'N.$, which is the proper lat. nearly.

$N.89^{\circ}46'W.$, on a random line bet. secs. 19 and 30.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.40 Intersect E. bdy. of T.43 S., R.10 W. 14 lks. N. of point for cor. of secs. 19, 24, 25 and 30 which is a cross on smooth sandstone ledge or 76 lks. S. of the witness cor. to cor. of secs. 19, 24, 25 and 30 which is an iron post, 3 ft. long, 3 ins. in dia., 12 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.

Thence I run

$S.89^{\circ}52'E.$, on a true line bet. secs. 19 and 30.

Over mountainous land; through scattering timber.

Asc.

6.00 Top of ridge, 100 ft. above sec. cor., bears N. and S.

Desc.

9.00 Bottom of hollow, 30 ft. below ridge, course N.

Asc.

40.20 Point for cor. falls on solid sandstone, therefore I mark a cross at the exact cor. point and at

40.26 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground and surrounded by mound of stone for witness to $\frac{1}{4}$ sec. cor. mkd. on brass cap T 43 S R $9\frac{1}{2}$ W W C $\frac{1}{4}$ S 19 in N half and S 30 in S half; impossible to set post deeper.

A yellow pine 8 ins. in dia., bears $N.58^{\circ}15'E.$,

100 lks. dist. mkd. W C $\frac{1}{4}$ S 19 B T,

Subdivision of T. 43 S. R. 91 E. - Continued.

Chains

A yellow pine, 8 ins. in dia., bears S. 43° E.,

74 lks. dist. mkd. W C 1/2 S 30 B E.

48.00 Top of divide ridge, bet. Short Creek and Cottonwood
Canons, 500 ft. above hollow, bears N. 20° E. and S. 20° W.
Desc.

55.00 Head of Canon, 200 ft. below ridge, course SE. Continue Desc.

65.00 Top of ridge, 100 ft. below canon, bears N 70° W. and S 70° E. Desc.

80.40 The point for cor. of secs. 19, 20, 29 30 which is 40 lks.
W. and 20 lks. N. of the witness cor.

Note: This cor. is 100 ft. below last ridge.

Land, mountainous.

Soil, sandy loam and rocky and smooth sandstone slopes
2nd and 4th rate.

Timber, pinon pine, cedar, and yellow pine.

Mountainous land 80.40 chs.

April 2, 1910.

April 4, 1910: At 8 h 03 m a.m., l.m.t., I set off 37° 02' N.,
on the lat. arc; 5° 32' N. on the decl. arc; and determine
a meridian with the solar at true point for cor. of secs.
which is 20 lks. N and 40 lks. W. of the witness cor. of
secs. 19, 20, 29, and 30. Thence I run

East on a true line bet. secs. 20 and 29.

Over mountainous land; through scattering timber.

Desc. abruptly over sandstone ledges.

16.65 Foot of ledges, enter bottom of Cottonwood Canon, 600
ft. below sec. cor., bears N. 20° E. and S.

Desc. gently.

22.70 Tank, 40 lks. wide, 2 ft. deep, in bottom of Canon, course S.

25.00 Leave canon bottom, bears N. 20° E. and S. 20° E.

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W.-Continued.

Chains

Asc.

27.80 Top of spur, 40 ft. above canon, bears NE and SW.

Desc.

34.40 Bottom of hollow, 30 ft. below ridge, course SW.

Asc.

37.94 Intersect W. bdy. of Tp. 43 S., R. 9 W., at point 15.60 chs.

N. of the cor. of Tps. 43 and 44 S., R. 9 W. which is an iron post, 3 ins. in dia., 12 in. above ground, mkd. and witnessed as described by the surveyor general. All marks pertaining to T. 43 S., R. 9 $\frac{1}{2}$ W. destroyed.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of fractional secs. 20 and 29, mkd. on brass cap

T 43 S S 20 in NW.

T 43 S C C S 31 in NE.

T 44 S R 9 W S 6 in SE.; and

R 9 $\frac{1}{2}$ W S 29 in SW quadrants; from which

A cedar, 12 ins. in dia., bears S. 23° 15' W., 57 lks.

dist.. mkd. T 43 S R 9 $\frac{1}{2}$ W S 29 B T.

A pinon pine, 5 ins. dia., bears N. 53° 30' W., 96 lks.

dist.. mkd. T 43 S R 9 $\frac{1}{2}$ W S 20 B T.

Land mountainous.

Soil, sandy loam and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine, and yellow pine.

Mountainous land; 37.98 chs.

April 4, 1910: At this cor. I set off 5° 35' N., on the decl. arc; and at 10 h. 03 m. p. m. l. m. t., I observe the sun on the meridian, the resulting lat. is 37° 02' N., which is the proper lat. nearly.

From the point for cor. of secs. 19, 20, 29, and 30, which is 20 lks. N. and 40 lks. W. of the witness cor.

I run

S. 0° 1' E., bet. secs. 29 and 30.

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W.-Continued.

- Chains Over mountainous land; through scattering timber.
Asc. abruptly.
- 3.50 Top of ridge, 100 ft. above cor., bears E. and W.
Desc. abruptly over ledges along east slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 30 in W half
and S 29 in E. half; from which
- A cedar, 12 ins. dia., bears N. 65° E., 45 lks. dist.,
mkd. $\frac{1}{2}$ S 29 B T.
- A pinon pine, 6 ins. dia., bears S. 9° W., 24 lks.
dist. mkd. $\frac{1}{4}$ S 30 B T.
- 43.00 Head of hollow, 500 ft. below ridge, course S. 20° E
Asc.
- 45.50 Top of ridge, 50 ft. above hollow, bears NW and SE.
Desc.
- 52, 50 Head of hollow, 200 ft. below ridge, course S. 30° E.
Asc.
- 54.50 Top of ridge, 150 ft. above hollow, bears E. and W.
Desc. over small ridges and hollows draining to SE.
- 80.00 Face of sandstone ledge 50 ft. high, bears NW and SE.
Note: (It is impossible to set the cor. at this point,
therefore I mark a cross at the exact cor. point, and
at the nearest safe point which is 70 lks. east
Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the
ground, on solid rock, and surrounded by mound of earth
and stone, for witness cor. to cor. of secs. 29, 30, 31, and
32, mkd. on brass cap
- W C T 43 S S 50 in NW.
R 9 $\frac{1}{2}$ W S 29 in NE.
S 32 in SE.; and
S 31 in SW. quadrants; from which
The face of a sandstone ledge on which I mark
+ B O bears N. 15° E., 9 lks. dist.
A cedar, 14 ins. dia., bears S. 35° 00' E., 11 lks.

Subdivision of T.45 S., R.9 $\frac{1}{2}$ W -Continued.

Chains

dist .mkd.T 43 S R 9 $\frac{1}{2}$ W S 32 W C B T .

The face of a sandstone ledge on which I mark
+ B O.bears S.41°15'W.,40 lks. dist.

A pinon pine,8 ins.dia.,bears N.70°30'W.,110
lks.dist..mkd.T 43 S R.9 $\frac{1}{2}$ W S 30 W C B T.

Land mountainous .

Soil,sandy loam and rocky;2nd and 4th rate.

Timber,cedar,pinon pine,and yellow pine.

Mountainous land,80.00 chs.

April 4,1910.

April 5,1910;At 8 H 03 m a.m.l.m.t.,I set off 37°01'N.,
on the lat.arc;5°55'N.,on the decl.arc;and determine
a meridian with the solar,at the cor.of secs.29,30,31,
and 32 .

From the cor.point which is 70 lks.West of the witness
cor.

I run

N.89°52'W.,on a random line bet.secs.30 and 31.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.36 Intersect E.bdy.of Tp43 S.,R.10 W.,14 lks.N.of the cor.
of secs.25,30,31,and 36,which is an iron post,3 ins.in
dia.,12 ins.above mound of stone,firmly set,and mkd.and
witnessed as described by the surveyor general.

Thence I run

S.89°58'E.,on a true line bet.secs.30 and 31.

Over mountainous land;through scattering timber.

Asc.

17.20 Top of divide ridge bet.Short Creek and Cottonwood Canons
200 ft.above canon,bears N.and S.

Desc.abruptly over sloping sandstone ledges.

Subdivision T.43 S., R.9 $\frac{1}{2}$ W.-Continued.

Chains

- 40.18 Falls on smooth sandstone ledges where it would be impossible to perpetuate the cor.; therefore at
- 49.66 Top of ridge, 500 ft. below divide ridge, bears N.20°W. and S.20°E.

This being the nearest safe ground for the witness cor. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor. mkd. on bras cap T 43 S R 9 $\frac{1}{2}$ W W C $\frac{1}{4}$ S 30 in N half; and S 31 in S half from which

A yellow pine, 10 ins. dia., bears N.36°45'W., 80 lks. dist. mkd. W C $\frac{1}{4}$ S 30 B T.

A yellow pine, 16 ins. dia., bears S.65°30'E., 83 lks. dist. mkd. W C $\frac{1}{4}$ S 31 B T.

Continue descent over ledges.

- 80.20 Bottom of hollow, 500 ft. below ridge, course SE.

Asc.

- 80.36 The point for cor. of secs. 29, 30, 31, and 32, which is 70 lks. W. of witness cor.

Land, mountainous .

Soil, rocky 4th rate.

Timber, cedar pinon pine and yellow pine.

Mountainous land, 80.36 chs.

April 5, 1910: At this cor. I set off 5°58'N., on the decl. arc. and at 10 h 03 m p.m., l.m.t., I observe the sun on the meridian the resulting lat. is 37°01'N., which is the proper lat. nearly.

From the point for cor. of secs. 29, 30, 31, and 32, which is 70 lks. West of witness cor.

I run

East, on a true line bet. secs. 29 and 32.

Over mountaouns land; through scattering timber.

Subdivision of T.43 S., R.9½ W -Continued.

Chains

Desc. over ledges.

3.50 Bottom of hollow, 50 ft. below sec. cor., course S. 20° E.

Asc.

9.00 Top of ridge, 200 ft. above hollow, bears N. and S.

Desc. abruptly.

23.00 Foot of steep descent, 200 ft. below ridge, enter bottom of Cottonwood Canon, bears N. and S.

Desc. gently

25.50 Wash, 50 lks. wide, 6 ft deep, course S.

36.00 Leave Cottonwood Canon, bears N. 10° E. and S. 10° W.

Asc.

38.10 Intersect W. bdy. of T. 44 S., R. 9 W At point 15.70 chs.

N. of the cor. of secs. 5 and 7 which is an iron post, 3 ins. dia., 12 ins. above ground, firmly set, and mkd. and

witnessed as described by the surveyor general. All marks pertaining to T. 43 S. R. 9½ W. destroyed.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for closing cor. of secs. 29 and 32, mkd. on brass cap

T 43 S S 29 in NW.

T 44 S C C S 6 in NE.

R 9 W S 7 in SE.; and

R 9½ W S 32 in SW. quadrants; from which

A cedar, 6 ins. dia., bears N. 12° W., 225 lks.

dist.. mkd. T 43 S. R 9½ W S 29 B T.

No other trees within limits; adagpits, 24x18x12 ins. N. & S.

of post, 3½ ft. dist.; and W. of post, 7 ft. dist.; and raise

and mound of earth 4 ft. base, 2 ft. high, W. of cor.

Land, mountainous .

Soil, sandy loam and rocky; 2 nd and 4th rate.

Timber, cedar apinon pine, and yellow pine.

Mountainous land, 38.10 chs.

From point for cor. of secs. 29, 30, 31, and 32, which is 70

Subdivision of T.43 S., R.9½ W.-Continued.

Chains

- 1 ksq. West of the witness cor.
- I run
- S.0°1'E., on a true line bet. secs. 31 and 32.
- Over mountainous land; through scattering timber and scattering undergrowth. Desc. abruptly over ledges.
- 1.50 Bottom of hollow, 10 ft. below sec. cor. drains SE. Desc.
- 4.00 Enter bottom of hollow, bears NE and SW.
- Thence along west side of hollow.
- Leave ledges.
- 17.70 Wash, 60 lks. wide, 4 ft. deep, course S.70°E.
- 25.50 Begin abrupt ascent over ledges, bears NW and SE.
- 40.00 Top of ridge, 500 ft. above hollow, bears N.40°W. and S.5 E.
- Cor. point falls on sloping sandstone ledge therefore at the exact cor. point I mark a cross (+) and at 85 lks East which is the nearest safe point I
- Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on rock, and surrounded by mound of earth and stone, for witness cor. to ¼ sec. cor. mkd. on brass cap T 43 S R 9½ W in N. half; W C ¼ S 31 in W half; and S 32 in E half; from which
- A pinon pine 6 ins. dia., bears N.81°E., 81 lks dist.. mkd. W C ¼ S 32 B T.
- A pinon pine, 4 ins. dia., bears N.9°30'W., 49 lks. dist.. mkd. W C ¼ S 32 B T.
- 45.00 Begin abrupt desc. over ledges, bears NW and SE.
- 57.00 Bottom of hollow, 100 ft. below ridge, course W.
- Asc.
- 58.15 Intersect Utah-Arizona line at point 12.13 chs. West of the 63 mile cor. which is a sandstone, 18x14x3 ins., above ground, firmly set, and mkd. Utah on N. Ariz on S., and 37 N L on E faces and 63 M on top.; and witnessed as described by the surveyor general.
- Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W.-Continued.

Chains ground, and surrounded by a mound of stone, for closing cor. of fractional secs. 31 and 32, mkd. on brass cap

U T 43 S R 9 $\frac{1}{2}$ W in N half.

A in South Half

S 31 in NW ; and

S 32 C C in NE Quadrants; from which

A pinon pine, 9 ins. dia., bears N. 22° 15' E., 35 lks. dist.. mkd. T 43 S R 9 $\frac{1}{2}$ W S 32 B T.

A pinon pine, 8 ins. dia., bears N. 11° 30' W., 45 lks. dist.. mkd. T 43 S R 9 $\frac{1}{2}$ W S 31 B T.

Land, mountainous .

Soil, sandy and gravelly loam; 2nd rate..

Timber, cedar, pinon pine, and yellow pine.

Undergrowth, sage brush.

Mountainous land, 58.15 chs.

Note: In order to justify the closings in sec. 32 I commence at the 63rd mile cor. on the Utah-Arizona line above described .

I run

East on retracement line along south side sec. 32.

26.12 Fall 1 lk. S. of the closing cor. of Tps. 43. and 44 S., Rs. 9 and 9 $\frac{1}{2}$ W. which is an iron post, 3 ins. in dia., 12 ins above ground, and mkd. and witnessed as described by the surveyor general.

April 5, 1910.

Andrew J. Stewart
U.S. Deputy Surveyor .

Subdivision of T.43 S., R.9 $\frac{1}{2}$ W. - Continued.

Chains

General Description.

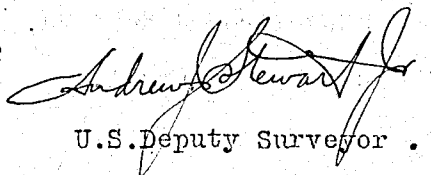
This township is made up principally of high rugged mountain ridges and deep canons. The greater part of it is made up of smooth sandstone slopes; the vegetation covering only those parts which have sufficient soil to produce it.

The only land that is not precipitous with abrupt slopes is the bottom of Cottonwood canon and the land at the very head of Short Creek Canon. In these localities it is a gently rolling country. There is a heavy growth of cedar pinch pine and yellow pine timber on a good deal of the township and a dense growth of sage and bitter brush only in parts. The timber in the township is practically inaccessible on account of the rugged slopes and the smooth sandstone canon walls. It is therefore of very little commercial value.

Very little grass is produced by this land. There is no water in the township and its chief value is for winter grazing, and only about one third of it is fit for this purpose. There are no settlers in the township and no indications of oil or mineral.

The nearest water to the township is about one half mile south of sec. 31, in Arizona, known as Cottonwood spring. Flowing about 5 Gal. per minute of good water.

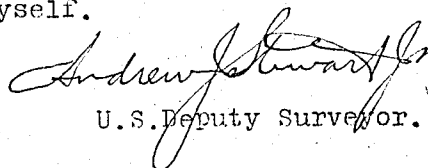
April 5, 1910.


U.S. Deputy Surveyor.

Subdivision of T. 43 S., R. 9 $\frac{1}{2}$ W.- Concluded.

Note:

There being no notary public, or other officer authorized to administer oaths, within a reasonable distance, at the beginning or ending of the surveys executed by me under this contract, therefore, in order to save time and expense, I administer the preliminary and final oaths to my assistants myself.


U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Andrew J. Stewart Jr.

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of fractional T.43 S.R.9 $\frac{1}{2}$ W. of Salt Lake Base and Meridian, Utah.

showing the respective capacities in which they acted:

Joseph Stevens....., Chairman.

Clarence M. Englestead....., Chairman.

Ernest Stevens....., Moundman.

....., Moundman.

Jesse Jepson....., Flagman and Arman.

....., Arman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Andrew J. Stewart Jr.

....., United States Deputy Surveyor, in surveying all those parts or portions of the subdivisions of fractional T.43 S.R.9 $\frac{1}{2}$ W.

..... of the Salt Lake Base and meridian, State of Utah, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Utah.

Joseph Stevens....., Chairman.

Clarence M. Englestead....., Chairman.

Ernest Stevens....., Moundman.

....., Moundman.

Jesse Jepson....., Arman and Flagman.

....., Arman.

....., Flagman.

Subscribed and sworn to before me this 5 th }
day of April, 1910, 190

OOOOOO
O SEAL O
OOOOOO

Andrew J. Stewart Jr.

U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Andrew J. Stewart, Jr., United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for Utah, bearing date of the 17 day of March 1909, ~~XIX~~, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision of frac1.
T. 43 S. R. 9 1/2 W.

_____ of the Salt Lake Base and meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Andrew J. Stewart Jr.
United States Deputy Surveyor.

Subscribed by said Andrew J. Stewart Jr., and sworn to before me }
this 17th day of January, 1909

M. E. Katchner Jr.
Clerk 4th Dist Court, Utah Co. Utah



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, Apr. 19, 1901

The foregoing field notes of the survey of the subdivision of fractional Town-
ship No. 43 South, Range No. 9 1/2 West of the Salt Lake Base and Merid-
ian, Utah,

executed by Andrew J. Stewart Jr. and Leo A. Snow
their under ~~his~~ contract No. 309, dated March 17, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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4-679.

FILED
MAR 7 1910

BOOK A-362

T.

FIELD NOTES

OF THE SURVEY OF THE

NORTH AND EAST BOUNDARIES

O F

TOWNSHIP 43 SOUTH, RANGE 10 WEST

Of the Salt Lake Base and Meridian,

U T A H

AS SURVEYED BY

bert E. L. Collier and Ralph Gentry, United States Deputy Surveyors,

Under ^{their} ~~his~~ Contract No. 310, dated March 20, 1909,

Survey commenced December 9, 1909,

Survey completed December 14, 1909.

12 May 5-79-37

E " 5-54-21

11.56.58

closing 12-70

NAMES AND DUTIES OF ASSISTANTS.

Norman Cooper, Chairman.

Alfred Johansen, Chairman.

Ozro Demill Moundman.

Ozro Demill, Axman.

Robert T. Collier, Flagman.

For preliminary affidavits see book "C" T. 41 S., R. 12 W.

Volume

#

R0362

BOOK A-362

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 190 }



NORTH BOUNDARY. T. 43 S., R. 10 W.

Survey commenced Dec. 9, 1909, and executed with the instrument described in book "A" of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 42 and 43 S., Rs. 10 and 11 W., established by myself, and heretofore described, lat. $37^{\circ} 05' 00''$ N.; long. $112^{\circ} 58' 41''$ W., I set off $37^{\circ} 05' N.$ on lat. arc; $22^{\circ} 47' S.$ on decl. arc, and at 3 h. 52 m. p.m. l.m.t. determine with the solar a meridian and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of the cor.

Dec. 9, 1909.

Dec. 10 At 2 h. 11 m. a.m. l.m.t. I observe Polaris at western elongation, in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

At 7 h. 30 m. a.m., I lay off the azimuth of Polaris $1^{\circ} 29'$ to the east, and mark the meridian thus determined by a tack driven in the wooden peg set Dec. 9, on which the meridian falls 0.4 ins. east of the mark determined by the solar.

At 7 h. 52^A m. I set off $37^{\circ} 05' N.$ on the lat. arc; $22^{\circ} 50' S.$ on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively $0^{\circ} 21''$ W. and $0^{\circ} 16''$ E. of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8 h. 30 m. a.m. is $N. 16^{\circ} 15' W.$, the angle thus determined gives the mag. decl. $16^{\circ} 15' E.$

From the Tp. cor. already described I run

East bet. secs. 6 and 31,

Ascending very rough mountain; through undergrowth of scrub oak brush.

28.50 Foot of perpendicular cliffs bearing $N. 15^{\circ} E.$ and $S. 15^{\circ} W.$, impossible to chain over.

Being unable to see to top of cliffs from this point, I return to the township corner for triangulation point. I set a flag on line on top of cliffs, then measure a base north 40.00 chs, to $1/4$ sec. cor. bet. secs. 31 and 36, from which the flag bears $S. 37^{\circ} 36' E.$; from the flag the N. end of base bears $N. 37^{\circ} 36' W.$; therefore the dist. is $\tan. 37^{\circ} 36' \times$ base, or 0.770×40.00 , which equals

30.80 Top of cliffs, 600 ft. above foot,

Enter scattering pine timber. Ascend gradually over mountain, very rough and broken.

38.37 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $1/4$ sec. cor., marked on brass cap, $1/4$ S 31 in N. half, S 6 in S. half; and raise a round of stone $2 1/2$ ft. base, 2 ft. high N. of cor.

53.00 Top of mountain, 100 ft. above top of cliffs, bears N. and S. Descend.

76.37 Set an iron post 3 ft. long, 3 ins. dia., 12 ins. in the

NORTH BOUNDARY T. 43 S., R. 10 W., 3d MERIDIAN

Chains. 100 ground, with mound of stone 12 ins. high around it,
 11.41.20 Cor. of secs. 5, 6, 31, and 32, marked on brass cap,
 T. 42 S. R. 10 W. in N. 1/4 sec. 31 of T. 42 S. R. 10 W. 3d Meridian
 11.41.30 T. 43 S. in S. half; sec. 31, and S. 31 in S. 1/4
 11.41.40 S. 31 in NW. 1/4 sec. 31 of T. 43 S. R. 10 W. 3d Meridian
 11.41.50 S. 32 in NE. 1/4 sec. 32 of T. 43 S. R. 10 W. 3d Meridian
 S. 5 in SE., and S. 6 in SW. quadrants; from which
 11.42.00 A pine 8 ins. dia., bears S. 53° 50' E. 14 lks. dist.
 11.42.10 marked T. 43 S. R. 10 W. S. 5 B. T. 11.42.20
 11.42.30 A pine 10 ins. dia. bears N. 77° 15' W. 51 lks. dist.
 11.42.40 marked T. 42 S. R. 10 W. S. 31 B. T. 11.42.50
 11.43.00 A pine 10 ins. dia. bears N. 33° 18' E. 160 lks. dist.
 11.43.10 marked T. 42 S. R. 10 W. S. 32 B. T. 11.43.20
 No other bearing trees within limits; raise a mound of
 stone 2 1/2 ft. base, 2 ft. high W. of cor.
 Impossible to set post 24 ins. in the ground.
 Land, mountainous.
 Soil, rocky; 4th rate.
 Undergrowth oak brush.
 Timber, scattering pine.
 Mountainous land, 78.37 chs. 11.43.30
 Corner stands on W. side of gulch, 250 ft. below top of
 mountain. 11.43.40
 Dec. 10: At this cor. I set off 22° 15' S. on decl. arc;
 and at 11 h. 53 m. a. m. I observed the sun on the
 meridian; the resulting lat. is 37° 05' N.

10.25 Descending through scattering pine, saw timber.
 10.25 Wash, 75 ft. below cor., 40 lks. wide, 4 ft. deep, course
 NE. Ascend. 11.43.50
 25.25 Top of spur, 75 ft. above wash, bears N. 2 chs. Descend.
 40.00 Set an iron post 3 ft. long, 1 in. dia., 12 ins. in the
 ground.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains.

ground, with mound of stone around it, for $\frac{1}{4}$ sec. cor.marked on brass cap $\frac{1}{4}$ S 32 in N. half, S 5 in S. half.

Impossible to set post 26 ins. in the ground,

A pine 8 ins. dia. bears S. 54° W. 1.06 chs. dist.,

marked $\frac{1}{4}$ S 5 B T

A pine 8 ins. dia. bears N. 69° 53' W. 42 lks. dist.

marked $\frac{1}{4}$ S 32 B T

42.50 Foot of spur, 40 ft. below top, bears NW. and SE.

Descend gradually.

63.60 Top of box canyon 375 ft. deep, bears N. and S.; impossible to get into; therefore at this point,

Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for witness cor. to cor. of secs. 4, 5, 32, and 33

marked on brass cap,

T 42 S R 10 W in N. half,

T 43 S in S. half;

W C S 32 in NW.

S 33 in NE.

S 4 in SE.; and S 5 in SW. quadrants; from

which

A pine 16 ins. dia. bears S. 75° 38' W. 97 lks. dist.

marked W C T 43 S R 10 W S 5 B T

A pine 14 ins. dia. bears N. 23° 45' W. 1.09 chs. dist.

marked W C T 42 S R 10 W S 32 B T

No other bearing trees within limits; raise a mound of stone 2½ ft. base, 2 ft. high W. of cor.

From this witness cor. I offset

South 10.00 chs.

Thence East on offset line through sec. 5; through scattering timber.

70.50 On offset line, wash, draining N. end.

80.00 Set a sandstone 12 x 12 x 6 ins., 8 ins. in the ground, for witness cor. to cor. of secs. 4, 5, 32, and 33, marked with 2 notches on W. and 4 notches on E. edge, W C on NE. face; and raise a mound of stone 2 ft. base, 1½ ft.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains.

high W. of cor. Pits impracticable.

Box canyon bears N. 1.50 chs.; impossible to get into it.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering pine.

Mountainous land 80.00 chs. Dec. 10, 1909.

Dec. 11: At 7 h. 53 m. a. m. I set off $37^{\circ} 05' N.$ onlat. arc; $22^{\circ} 56' S.$ on decl. arc; and determine a me-

ridian with the solar at the witness cor. to cor. of

secs. 4, 5, 32, and 33. Thence I run

East on offset line through sec. 4,

Through scattering timber.

10.00 Leave timber, bears N. and S. Enter rolling sandstone

surface.

40.00 It being impossible to offset north to true line I

Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the

ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brasscap, T 42 S R 10 W $\frac{1}{2}$ S 33 in N.; W C S 4 in S. half;and raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high N.

of cor.

57.00 Foot of sandstone ledge bears N. $20^{\circ} E.$ and S. $20^{\circ} W.$

Ascend.

76.00 Top of ledge, 300 ft. above foot. Descend gradually.

80.00 Offset north 2 chs. to foot of cliffs bearing E. and W.

impossible to get over.

Set a sandstone 16 x 12 x 6 ins., 11 ins. in the ground,

for witness cor. to cor. of secs. 3, 4, 33, and 34, marked

with 3 notches on E. and W. edges, W C on NE. face; and

raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, scattering pine.

Mountainous land 80.00 chs.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains. From the witness cor. to cor. of secs. 3, 4, 33, and 34, I continue on offset line, through scattering timber, East through sec. 3, to sta. 19.75; then, from
 19.75 Offset north 8.00 chs. to true line; thence west 3.60
 16.15 At foot of impassable cliffs bearing NW. and SE. Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for witness cor. to cor. of secs. 3, 4, 33, and 34, marked on brass cap,
 T 42 S R 10 W in N. half S 3 in S.; S 33 in NW. S 34 in NE.; S 3 in SE.; and S 4 in SW. quadrants; from which
 A pine 24 ins. dia. bears S. 80° E. 4.07 chs. dist.
 marked W C T 43 S R 10 W S 3 B T. This is the
 A pine 16 ins. dia. bears N. 21° 18' W. 1.98 chs. dist.
 marked W C T 42 S R 10 W S 33 B T. This is the
 No other bearing trees within limits; raise a mound of stone 2½ ft. base, 2 ft. high W. of cor. of sec. 34.
 Thence run, with continuous measurement, East bet. secs. 3 and 34, on a line
 Descending over mountainous land
 40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for ¼ sec. cor., marked on brass cap ¼ S 34 in N. half, S 3 in S. half; from which
 A pine, 14 ins. dia., bears S. 60° 20' W. 39 lks. dist.
 marked ¼ S 3 B T.
 A pine 8 ins. dia. bears N. 42° 25' W. 15 lks. dist.
 marked ¼ S 34 B T.
 50.00 Top of gulch of South Creek bearing N. and S., impossible to chain across; therefore, to determine the distance, I set a flag on line on E. side of gulch; then measure a base S. 40.00 chs. to a point, from which the flag bears N. 52° 09' E.; from the flag the S. end of base bears S. 52° 09' W.; therefore the dist. is $\tan 52^\circ$

NORTH BOUNDARY T. 43 S., R. 10 W. T. 10000

Chains. 09' x base, or 1.287×40.00 , equals 51.48; from which subtract 30.00 (the distance which added to 50.00 = point for sec.cor.) makes 21.48, east of true point for cor.of secs.2,3,34, and 35, on E.side of South Creek, 400 ft.deep, draining N.
Set an iron post 3 ft.long, 3 ins.dia., 12 ins.in the ground, for witness cor.to cor.of secs.2,3,34, and 35, marked on brass cap,

T 42 S R 10 W in N.

T 43 S in S.,

S 34 in NW.

W C S 35 in NE.

S 2 in SE.; and S 3 in SW.quadrants; and

raise a mound of stone 12 ins.high around post; and

mound of stone $2\frac{1}{2}$ ft.base, 2 ft.high W.of cor.

Impossible to set post 24 ins.in the ground.

80.00 Point for cor.of secs.2,3,34, and 35, cor.not set.

Land, mountainous; very rough.

Soil, rocky; 4th rate.

Timber, pine, saw timber.

Mountainous land 80.00 chs.

Dec.11, 1909,

Dec.11: At noon hour sky overcast; no obs. for lat. this day.

Dec.12: At 7 h. 54 m.a.m.1.m.t.I set off $37^{\circ} 05' N.$ on lat.arc; $23^{\circ} 00' S.$ on decl.arc; and determine a meridian with the solar at the witness cor.to cor.of secs.2,3,34, and 35, which is 21.48 chs.E.of true cor. point:

Thence I run, with continuous measurement,

East bet.secs.2 and 35,

Ascending over mountainous land.

36.00 Enter scattering timber and undergrowth, bearing N.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains. and S.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 35 in N. half, S 2 in S. half; from which

A pine 16 ins. dia. bears S. $65^{\circ} 50' E.$ 1.92 chs. dist. marked $\frac{1}{4}$ S 2 B T

A pine 16 ins. dia. bears N. $32^{\circ} 20' E.$ 1.72 chs. dist. marked $\frac{1}{4}$ S 35 B T

41.50 Top of mountain, 75 ft. above top of South Creek gulch, bears N. and S.

Descend gradually.

52.00 Wash, heads 4 chs. N. 1.50 chs. wide, 40 ft. deep, course S. $30^{\circ} E.$

80.00 Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, marked on brass cap,

T 42 S R 10 W in N.

T 43 S in S.

S 35 in NW.

S 36 in NE.

S 1 in SE., and S 2 in SW. quadrants; from

which

A pine, 16 ins. dia., bears S. $9^{\circ} 45' E.$ 1.04 chs. dist., marked T 43 S R 10 W S 1 B T

A pine 10 ins. dia. bears S. $31^{\circ} W.$ 1.46 chs. dist. marked T 43 S R 10 W S 2 B T

A pine 16 ins. dia. bears N. $53^{\circ} 55' W.$ 2.77 chs. dist. marked T 42 S R 10 W S 35 B T

A pine, 20 ins. dia. bears N. $46^{\circ} 15' E.$ 2.67 chs. dist. marked T 42 S R 10 W S 36 B T

Land, mountainous.

Soil, rocky; 4th rate.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains. 11. 100 y; 400 2000.

Timber, pine saw timber.

Undergrowth, brush.

Mountainous land 80.00 chs.

Dec. 12: At this cor. I set off $23^{\circ} 04' S.$ on decl. arc; and
 at 11 h. 54 m. a. m. 1. m. t. observe the sun on the merid-
 ian; the resulting lat. is $37^{\circ} 07' N.$

East bet. secs. 1 and 36,

Descending through timber and undergrowth.

8.00. Wash, 20 ft. below cor., 20 lks. wide, 3 ft. deep,
 course $S. 15^{\circ} E.$

Ascend.

10.50 Top of spur, 30 ft. above wash, bears S. 3 chs.

Descend.

15.00 Wash, 15 ft. below spur, 10 lks. wide, 2 ft. deep, course
 S. Ascend.

20.00 Top of ascent, 20 ft. above wash, bears N. and S.

Descend gradually.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4} S 36$
 in N. half, S 1 in S. half; from which

A pine 6 ins. dia. bears $S. 31^{\circ} E.$ 87 lks. dist.

marked $\frac{1}{4} S 1 B T$

A pine 12 ins. dia. bears $N. 63^{\circ} 55' W.$ 1.57 chs. dist.

marked $\frac{1}{4} S 36 B T$

46.70 Begin rapid descent to wash bearing N. and S.

Leave undergrowth of brush, bearing N. and S.

51.10 Wash, 150 ft. below top of ascent, 15 lks. wide, 4 ft. deep,
 course $S. 15^{\circ} E.$

Ascend.

60.75 Top of spur, 75 ft. above wash bears S. 4.00 chs.

Descend.

NORTH BOUNDARY T. 43 S., R. 10 W.

Chains.
69.25

Wash, 75 ft. below spur, 20 lks.wide, 4 ft.deep, course
S. Ascend.

73.75

Top of ridge, 75 ft.above wash, bears N. and S.
Descend.

80.00

Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the
ground, for cor.of Tps.42 and 43 S., Rs. $9\frac{1}{2}$ and 10 W.
marked on brass cap,

T 42 S in N.

T 43 S in S.

R 10 W S 36 in NW.

R $9\frac{1}{2}$ W S 31 in NE.S 6 R $9\frac{1}{2}$ W in SE.

S 1 R 10 W in SW.quadrants; from which

A pine 8 ins.dia.bears S.83° 40'E. 1.15 chs.dist.

marked T 43 S R $9\frac{1}{2}$ W S 6 B T

A cedar 20 ins.dia.bears N.10° 30'E. 42 lks.dist.

marked T 42 S R $9\frac{1}{2}$ W S 31 B T

A pine 6 ins.dia.bears N.44° W. 85 lks.dist.

marked T 42 S R 10 W S 36 B T

No other bearing trees within limits; raise a mound of
stone $2\frac{1}{2}$ ft.base, 2 ft.high W.of cor.

Corner stands at foot of ledge, 10 ft.high, bearing N.
and S.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, pine; saw timber.

Undergrowth

Mountainous land 80.00 chs.

Dec.12, 1909.

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EAST BOUNDARY T. 43 S., R. 10 W.

Chains.	Dec.13, 1909: At 7 h.54 m.a.m.1.m.t.I set off 37° 05' N. on lat.arc; 23° 05' S. on decl.arc; and determine a meridian with the solar at the cor.of Tps.42 and 43 S. Rs. 9 1/2 and 10 W.. Thence I run South bet.secs.1 and 6, Descending mountain, through cedar and pine timber, over rough sandstone surface.
0.50	Top of ascent bears S.30° W. and N.30° E. Descend.
31.50	Top of ridge bears S.10° E. and N.10° W. Descend.
40.00	Set an iron post 3 ft.long, 1 in.dia., 18 ins.in the ground, with mound of stone around it, for 1/4 sec. cor., marked on brass cap, 1/4 S 1 in W.half, S 6 in E.; raise mound of stone 8 ins.high around post; im- possible to set it 26 ins.in the ground. A cedar 6 ins.dia.bears S.80° 35' W. 35 lks.dist. marked 1/4 S 1 B T A pine 24 ins.dia.bears S.24° 18' E. 43 lks.dist. marked 1/4 S 6 B T
54.25	Wash, 100 ft.below 1/4 sec.cor. course S.70° E. 25 lks. wide, 6 ft.deep. Ascend.
62.75	Top of ascent, 40 ft.above wash. Slight descent.
80.00	Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.1,6,7, and 12, marked on brass cap, T 43 S in N.half, R 10 W S 1 in NW. R 9 1/2 W S 6 in NE. S 7 in SE., and S 12 in SW.quadrant; from which A cedar 20 ins.dia.bears N.10° 30' E. 42 lks.dist. marked T 43 S R 9 1/2 W S 6 B T A pine 8 ins.dia.bears S.83° 40' E. 1.15 chs.dist. marked T 43 S R 9 1/2 W S 7 B T

EAST BOUNDARY T. 43 S., R. 10 W.

Chains.	<p>A pine 6 ins.dia.bears N.44° W. 85 lks.dist. marked T 43 S R 10 W S 1 B T</p> <p>No other bearing tree within limits; raise a mound of stone 2 1/2 ft.base, 2 ft.high W.of cor.</p> <p>Corner stands on E.slope of ridge.</p> <p>Land, mountainous.</p> <p>Soil, rocky; 4th rate; sandstone near surface.</p> <p>Timber, cedar and pine.</p> <p>Mountainous land 80.00 chs.</p>
	<p>South bet.secs.7 and 12, Ascending, through cedar and pine timber.</p>
5.50	<p>Top of spur bearing S.70° W.</p> <p>Descend.</p>
37.50	<p>Wash, on top of cliffs, 1 ch.wide, 5 ft.deep, course E.</p> <p>Ascend.</p>
40.00	<p>Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 12 in W.half, S 7 in E.half; from which</p> <p>A pine 12 ins.dia.bears S.35° W. 52 lks.dist. marked 1/4 S 12 B T</p> <p>A cedar 14 ins.dia.bears S.23° E. 69 lks.dist. marked 1/4 S 7 B T</p>
51.50	<p>Top of spur, bears S. and N.30° W. 125 ft.above 1/4 sec.cor.</p> <p>Thence along spur.</p>
70.00	<p>Top of spur, bearing N. and S.20° W. 100 ft.below top of above spur.</p> <p>Descend.</p>
80.00	<p>Set an iron post 3 ft.long, 3 ins.dia.12 ins.in the ground, for cor.of secs.7,12,13, and 18, marked on</p>

EAST BOUNDARY T. 43 S., R. 10 W.

Chains. brass cap,

T 43 S in N.half,

R 10 W S 12 in NW.

R 9 1/2 W S 7 in NE.

S 18 in SE., and

S 13 in SW.quadrants; from which

A cedar 10 ins.dia.bears N.17° 35'W. 78 lks.dist.

marked T 43 S R 10 W S 12 B T

A pine 10 ins.dia.bears N.70° E. 25 lks.dist.,

marked T 43 S R 9 1/2 W S 7 B T

A cedar 5 ins.dia.bears S.71° 20'E. 116 lks.dist.

marked T 43 S R 9 1/2 W S 18 B T

A pine 8 ins.dia.bears S.21° W. 65 lks.dist.

marked T 43 S R 10 W S 13 B T

Impossible to set post 24 ins.in the ground, raise a

mound of stone 2 1/2 ft.base, 2 ft.high W.of cor.

Land, mountainous.

Soil, rocky; 4th rate; stony surface.

Timber cedar and pine.

Mountainous land 80.00 chs.

Dec.13: At this cor.I set off 23° 08'S.on decl.arc;

and at 11 h. 54 m.a.m.l.m.t.observe the sun on the

meridian; the resulting lat.is 37° 03'N.

South bet.secs.13 and 18,

Ascending over steep rough sandstone surface; through
cedar and pine timber.

21.75 N.edge of Short Creek, 250 ft.below sec.cor.

22.50 Center of Short Creek, Water 1 ins.deep, course S.45° W.

23.25 S.edge of Short Creek. Steep ascent bearing NE. and SW.
over very rough sandstone surface, along W.slope.

32.00 Top of steep ascent. Thence over nearly level line,

EAST BOUNDARY T. 43 S., R. 10 W.

Chains.	200 ft.above Short Creek.
38.00	Wash, 10 lks.wide, 5 ft.deep, course N.25° W., 25 ft. below 1/4 sec.cor. Ascend.
40.00	Set an iron post 3 ft.long, 1 in.dia., 12 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 13 in W.half, S 18 in E.half; raise mound of stone 14 ins.high around post; impossible to set it 26 ins.in the ground. A pine 9 ins.dia.bears N.70° E. 14 lks.dist. marked 1/4 S 18 B T A pine 9 ins.dia.bears N.66° W. 52 lks.dist. marked 1/4 S 13 B T
44.00	Top of spur, projects 2 chs.NW., 30 ft.above 1/4 sec. cor. Thence over nearly level line, but very rough.
56.00	Ascend abruptly over very rough W.slope of spur.
61.65	Top of spur, bearing NE. and SW., 200 ft.above foot.
80.00	Set an iron post 3 ft.long, 3 ins.dia., 24 ins.in the ground, for cor.of secs.13,18,19, and 24, marked on brass cap, T 43 S in N.half, R 10 W S 13 in NW. R 9 1/2 W S 18 in NE. S 19 in SE., and S 24 in SW.quadrants; from which A cedar 9 ins.dia.bears N.43° 30'W. 34 lks.dist. marked T 43 S R 10 W S 13 B T A pine 24 ins.dia.bears W.61° E. 1.74 chs.dist. marked T 43 S R 9 1/2 W S 18 B T A cedar 14 ins.dia.bears S.89° E. 1.14 chs.dist. marked T 43 S R 9 1/2 W S 19 B T A pine 8 ins.dia.bears S.5° 40'W. 1.30 chs.dist. marked T 43 S R 10 W S 24 B T Corner is 100 ft.below top of spur. Land, mountainous.

EAST BOUNDARY T. 43 S., R. 10 W.

Chains.

Soil, scanty; sandstone near surface; 4th rate.

Timber, cedar and pine.

Mountainous land 80.00 chs.

Dec.13, 1909.

Dec.14: At 7 h.55 m.a.m. I set off 37°02' N. on lat.
arc; 23°09' S. on decl. arc; and determine a meridian
with the solar at the cor. of secs. 13, 18, 19, and 24.
Thence I run

South bet. secs. 19 and 24,

Descending gently through cedar and pine timber.

3.50 Wash, 30 lks. wide, 4 ft. deep, course N. 10° E.

Ascend over very rough sandstone surface.

25.90 Wash, drains NW.

36.00 Top of abrupt ascent 200 ft. above wash.

Ascend gradually.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for 1/4 sec. cor., marked on brass cap, 1/4 S
24 in W. half, S 19 in E. half; from which

A pine 8 ins. dia. bears N. 39° 50' E. 1.23 chs. dist.
marked 1/4 S 19 B T

A pine 16 ins. dia. bears S. 10° E. 70 lks. dist.
marked 1/4 S 24 B T

Cor. stands on top of spur or ridge, 300 ft. above sec.
cor.

Descend.

52.00 Foot of descent, 40 ft. below top of ridge.

Thence on nearly level line, over sandstone sloping to
W.

72.00 Begin ascent, bears E. and W.

79.10 Point for sec. cor. falls on smooth sandstone surface,
impossible to set post; therefore at this point,
Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the
ground, for witness cor. to cor. of secs. 19, 24, 25, and
30, marked on brass cap,

W C T 43 S in N. half,

R 10 W S 24 in NW.

EAST BOUNDARY T. 43 S., R. 10 W.

Chains.

R 9 1/2 W S 19 in NE. :

S 30 in SE., and

S 25 in SW. quadrants; from which

A pine 16 ins. dia. bears N. 46° 10' E. 1.34 chs. dist.

marked W C T 43 S R 9 1/2 W S 19 B T

A pine 7 ins. dia. bears N. 75° W. 1.28 chs. dist.

marked W C T 43 S R 10 W S 24 B T

A pine 8 ins. dia. bears S. 10° 30' W. 36 lks. dist.

marked T 43 S R 10 W S 25 B T

A pine 6 ins. dia. bears S. 42° E. 1.07 chs. dist.

marked T 43 S R 9 1/2 W S 30 B T

80.00 Point for cor. of secs. 19, 24, 25, and 30, corner not set,
marked a cross (X) at exact cor. point, with 4 grooves
N. and 2 grooves S. of cross.

Land, mountainous.

Soil, scanty, sandstone surface mostly; 4th rate.

Timber, cedar and pine.

Mountainous land 80.00 chs.

South bet. secs. 25 and 30,

Ascenting over sandstone surface; through scattering
saw-timber of pines, with some cedars.

21.00 Top of mountain, 150 ft. above sec. cor., bears N. 5° E.
and S. 5° W. Ascend gradually.

34.00 Top of ascent, 30 ft. above top; descend to wash.

38.50 Point for 1/4 sec. cor. falls on sandstone surface, where
it is impossible to set a post; therefore at this
point,

Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the

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EAST BOUNDARY T. 43 S., R. 10 W.

Chains. ground, for witness cor.to 1/4 sec.cor., marked on brass cap, W C 1/4 S 25 in W.half, S 30 in E.half; from which

A pine 16 ins.dia.bears S.66° 30'E. 61 lks.dist.
marked W C 1/4 S 30 B T

A pine 16 ins.dia.bears S.59° 20'W. 70 lks.dist.
marked W C 1/4 S 25 B T

40.00 Point for 1/4 sec.cor.falls on N.bank of wash on sandstone surface, impossible to set post.

40.50 Wash, 40 lks.wide, 4 ft.deep, course N.80° W.
Ascend over sandstone surface.

50.50 Top of ascent, 75 ft.above wash, bears E. and W.
Thence over top of mountain.

66.50 Begin descent over sandstone surface, bearing E. and W.

72.25 Foot of descent, 40 ft.below top or point of descent.

80.00 Set an iron post 3 ft.long, 3 ins.dia., in mound of stone 5 ft.base, 2 ft.high for cor.of secs.25,30,31 and 36 marked on brass cap,

T 43 S in N.half,
R 10 W S 25 in NW.
R 9 1/2 W S 30 in NE.
S 31 in SE., and
S 36 in SW.quadrants; from which

A pine 24 ins.dia.bears S.65° E. 2.74 chs.dist.
marked T 43 S R 9 1/2 W S 31 B T

No other bearing trees within limits; raise a mound of stone 2 1/2 ft.base, 2 ft.high W.of cor.
Impossible to set post in the ground, on account of sandstone surface.

Corner stands on W.slope of mountain, 500 ft.above wash.

Land, mountainous.

Soil, 4th rate; sandstone surface.

Timber, scattering cedar and pine.

Mountainous land 80.00 chs.

EAST BOUNDARY T. 43 S., R. 10 W.

Chains.

South bet.secs.31 and 36,

Ascending over rough sandstone surface, through scattering saw-timber, pine.

3.00 Top of ascent, 40 ft.above sec.cor., bears E. and W.
Thence over nearly level line.

23.50 Abrupt descent over rough broken sandstone surface,
bearing E. and W.

40.00 Point for 1/4 sec.cor.falls on smooth sandstone surface
impossible to set post.

48.55 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the
ground, for witness cor.to 1/4 sec.cor., marked on
brass cap, W C 1/4 S 36 in W.half, S 31 in E.half;
from which

A pine 10 ins.dia.bears N.87° E. 2.17 chs.dist.
marked W C 1/4 S 31 B T

A pine 12 ins.dia.bears S.27°45' E. 0.34 chs.dist.
marked W C 1/4 S 31 B T

At foot of rough sandstone mountain, 400 ft.below top.
Descend.

54.36 Wash, 30 ft.below witness cor., 20 lks.wide, 6 ft.deep,
course SE.

Ascend.

58.21 Intersect Utah-Arizona Boundary line 12.70 chs.W.of the
62d mile post, which is a sandstone 12 x 18 x 6 ins.
above ground, firmly set and marked and witnessed as
described by the surveyor general.

Set an iron post 3 ft.long, 3 ins.dia, 18 ins.in the
ground, with mound of stone 6 ins.high around it, for
closing cor.of Tps.43 S., Rs.9 1/2 and 10 W., marked
on brass cap,

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EAST BOUNDARY T. 43 S., R. 10 W.

UTAH T 43 S in N.

R 10 W S 36 in NW. a

R 9 1/2 W S 31 in NE. quadrants;

C C ARIZONA in S. half; from which

A pine 12 ins. dia. bears N. 78° E. 94 lks. dist.

marked C C T 43 S R 9 1/2 W S 31 B T

No other bearing trees within limits; raise a mound of
stone 2 1/2 ft. base 2 ft. high N. of cor.

Land, mountainous.

Soil, scanty; surface nearly all sandstone; 4th rate.

Timber, scattering pine.

Mountainous land 58.21 chs.

December 14 1909.

For general description see notes of the subdivi-
sion of this township.

BOUNDARIES OF T. 43 S., R. 10 W.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Lines Designated	True Bearing	Dist. chs.	Latitudes				Departures.	
			N.	S.	E.	W.	chs.	chs.
North Boundary	East	478.37	.....	.....	478.37	.....	.....	.....
East Boundary	South	458.21	.....	458.21	.....	.....	.....	.....
Utah-Arizona Bdy.	West	478.54	.....	.....	.....	478.54	.....	.....
West Boundary.	North	459.01	459.01	.....	.....	.....	.....	.....
Convergency							.55	
T o t a l s			459.01	458.21	478.92	478.54		
			458.21		478.54			
Error in lat and dep.			.80		0.38			

Robert E. R. Callied

U.S. Deputy Surveyor.

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Page

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Robert E.L. Collier

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of S. and E. Bdys. Tps. 41 and 42 S., Rs. 11 and 12 W.; E. Bdys. Tps. 43 S., Rs. 11 and 12 W.; and the N. and E. Bdys. of T. 43 S., R. 10 W. of the S.L.B. & M., Utah showing the respective capacities in which they acted:

Norman Cooper....., Chainman.

Alfred Johansen....., Chainman.

Ozro Demill....., Moundman.

....., Moundman.

Ozro Demill....., Axman.

....., Axman.

Robert T. Collier....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Robert E.L. Collier

....., United States Deputy Surveyor, in surveying all those parts or portions of the S. and E. Bdys. Tps. 41 and 42 S., Rs. 11 and 12 W.; E. Bdys. Tps. 43 S., Rs. 11 and 12 W. and the N. and E. Bdys. of T. 43 S., R. 10 W.

..... of the Salt Lake Base and meridian, State of Utah....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for U t a h

Norman Cooper....., Chainman.

Alfred Johansen....., Chainman.

Ozro Demill....., Moundman.

....., Moundman.

Ozro Demill....., Axman.

....., Axman.

Robert T. Collier....., Flagman.

Subscribed and sworn to before me this 23d
day of December, 1909.

Robert E.L. Collier



U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

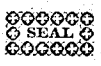
I, Robert E.L. Collier, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hull United States Surveyor General for U t a h, bearing date of the 20th day of March, 190 9 I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for U t a h, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the S. and E. Bdys. Tps. 41 and 42 S., Rs. 11 and 12 W.; E. Bdys. Tps. 43 S., Rs. 11 and 12 W.; and the N. and E. Bdys. of T. 43 S., R. 10 W.

_____ of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the in books C.G.W.P.R. & T. foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for U t a h and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Robert E.L. Collier
United States Deputy Surveyor.

Subscribed by said Robert E.L. Collier, and sworn to before me) this 9th day of February, 1910, ~~xxx~~

Thomas Hull
U.S. Surveyor-General



APPROVAL. For Utah.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 10, 1911.

The foregoing field notes of the survey of the North and East Boundaries of Township No. 43 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Robert E.L. Collier and Ralph Gentry under his contract No. 312, dated March 20, 190 9, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor-General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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4-670.

BOOK A-362

FILED

MAY 11 1910

FIELD NOTES

OF THE SURVEY OF THE

S U B D I V I S I O N

O F

T O W N S H I P N O. 43 S O U T H

R A N G E N O. 10 E A S T

Of the SALT LAKE BASE AND Meridian,

U T A H

AS SURVEYED BY

Robert B. L. Collier and Ralph Conroy, United States Deputy Surveyors

Under his Contract No. 210, dated March 20, 1909.

Survey commenced December 12, 1909,

Survey completed April 11, 1910

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54 00-77

36 50

100 ft. base line 100 ft. base line

NAMES AND DUTIES OF ASSISTANTS.

For 1909:

Frank Cooper, Norman Cooper, Chairman.

Carl Cooper, Alfred Johansen, Chairman.

Jesse Jepsen, Ozro Demill, Moundmen.

Jesse Jepsen, Ozro Demill, Axmen.

Robert T. Collier, Wm. W. Flannigan, Flagmen.

For 1910:

Wm. W. Flannigan Chairman.

Joseph Maloney, Chairman.

Wm. W. Flannigan, Moundmen.

Henry Cornelius, Axmen.

Henry Cornelius, Flagmen.

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For preliminary affidavits see Book "E" T. 41 S., R. 12 W.

watch
pgs #s

BOOK A-362

INDEX DIAGRAM.

Township 43 South, Range 10 West

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Norman Cooper and Alfred Johansen

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the ~~survey~~ of retracement and resurvey of the Utah-Arizona Bdy. line, through Tp. 43 S. Range 10 West of the S.L.B. & M., Utah.

Alfred Johansen

Norman Cooper, Chainman

Alfred Johansen, Chainman

Subscribed and sworn to before me this 20th
day of December, 19 09.

Robert E. L. Collier

U.S. Dep. Surveyor.



We, I, Ozro Demill and

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given ^{me} ~~us~~ to the best of ^{my} ~~our~~ skill and ability, in the ~~survey~~ of retracement and resurvey of Utah-Arizona Bdy. line, through Tp. 43 S. Range 10 West of the S.L.B. & M., Utah.

Ozro Demill, Moundman

Moundman

Subscribed and sworn to before me this 20th
day of December, 19 09.

Robert E. L. Collier

U.S. Dep. Surveyor.



We, I, Ozro Demill and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ^{me} ~~us~~ to the best of ^{my} ~~our~~ skill and ability, in the ~~survey~~ of retracement and resurvey of Utah-Arizona Bdy. line, through Tp. 43 S. Range 10 West of the S.L.B. & M., Utah.

Ozro Demill, Axman.

Axman.

Subscribed and sworn to before me this 20th
day of December, 19 09.

Robert E. L. Collier

U.S. Dep. Surveyor.



I, Robert T. Collier

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement and resurvey of Utah-Arizona Bdy. line through Tp. 43 S. Range 10 West of the S.L.B. & M., Utah.

Robert T. Collier, Flagman.

Subscribed and sworn to before me this 20th
day of December, 19 09.

Robert E. L. Collier

U.S. Dep. Surveyor.



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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 190 }



BOOK A-362

INDEX DIAGRAM.

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Meanders Page _____

Subdivision of T. 43 S., R. 10 W.

Survey commenced Dec. 12, 1909, and executed with the instrument described in book "6" of this survey. At the cor. of secs. 1 and 2 on the north bdy. of the Tp., lat. $37^{\circ} 05' N.$; long. $112^{\circ} 51' 07'' W.$, I set off $37^{\circ} 05' N.$ on the lat. arc; $23^{\circ} 00' S.$ on the decl. arc; and at 3 h. 54 m. p.m. l.m.t. determine with the solar a meridian and mark a point thereof on a peg firmly set in the ground 5 chs. N. of the cor.

Dec. 13, 1909.

Dec. 13: At 1^h 59^m a.m. l.m.t. observe Polaris at western elongation, in accordance with Manual of Instructions and mark a point in the line thus determined on a peg driven in the ground 5 chs. N. of my station.

At 7 a.m. l.m.t. I lay off the azimuth of Polaris $1^{\circ} 29'$ to the east, and mark the meridian thus determined by driving a small nail in the peg set this a.m., on which the meridian falls 0.1 in. east of the mark determined by the solar.

At 7 h. 54 m. a.m. l.m.t. I set off $37^{\circ} 05' N.$ on the lat. arc; $23^{\circ} 05' S.$ on the decl. arc; and mark a point in the meridian determined with the solar, by a small nail in the peg already set 5 chs. N. of my station; this mark falls 0.2 ins. east of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridian respectively about $0' 5''$ west and $0^{\circ} 10'' E.$ of the meridian established by the Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 2 h. 30 m. a.m. is $N. 16^{\circ} W.$; the angle thus determined gives the mag. decl. $16^{\circ} E.$

SUBDIVISION OF T. 45 S., R. 10 W.

- Chain. From the cor. of secs. 1, 2, 35, and 36 on the N. bdy. of the Tp., heretofore described, I run
- S. 6° 01' E. bet. secs. 1 and 2,
- Ascending gradually over top of mountain; through scattering timber.
- 4.86 Top of mountain, 25 ft. above sec. cor., bears NW. and SE. Descend over sandstone surface.
- 13.60 Wash, 75 ft. below top of mountain, 1 ch. wide, 30 ft. deep, course SE.
- Ascend.
- 18.00 Top of ascent, 20 ft. above wash, bears SE.
- Thence gradual ascent along E. slope of sandstone spur, rough and broken.
- 38.25 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness $1/4$ sec. cor., marked on brass cap W $0\ 1/4$ S. 2 in W. half, S 1 in E. half; from which
- A cedar 16 ins. dia. bears N. 25° 30' E. 45 lks. dist. marked $1/4$ S 1 B T
- A pine 16 ins. dia. bears S. 38° 30' W. 72 lks. dist. marked $1/4$ S 2 B T
- Corner stands on E. slope of sandstone spur, 150 ft. above wash.
- 40.00 Point for $1/4$ sec. cor. falls on sandstone ledge; impossible to set post.
- 42.00 Top of spur, 50 ft. above $1/4$ sec. cor., bears N. 15° W. and S. 15° E.
- Descend into deep gulch.
- 63.00 Wash, 250 ft. below top of spur, 50 lks. wide, 10 ft. deep, course SE.
- Ascend.
- 80.00 Set a sandstone 36 x 12 x 6 ins., 10 ins. in the ground for cor. of secs. 1, 2, 11, and 12, marked with 1 notch on E., and 5 notches on S. edge; from which
- A pine 10 ins. dia. bears N. 49° 40' E. 34 lks. dist. marked T 43 S B 10 W S 1 B T

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	<p>A pine 28 ins.dia.bears N.35° W. 1.11 chs.dist. marked T 43 S R 10 W S 2 B T</p> <p>A pine 10 ins.dia.bears S.47° 10' W.97 lks.dist. marked T 43 S R 10 W S 11 B T</p> <p>A pine 6 ins.dia.bears S.47° 10' E. 52 lks.dist. marked T 43 S R 10 W S 12 B T</p> <p>Corner stands on W.side of gulch, 150 ft.above wash . Land, mountainous. Soil, rocky, sandstone near surface; 4th rate. Timber yellow pine and cedars. Mountainous land 80.00 chs.</p>
20.00	<p>East on a random line bet.secs.1 and 12, Set temp. 1/4 sec.cor</p>
80.10	<p>Intersect E.bdy.of Tp. 9 lks.S.of the cor.of secs.1,6, 7 and 12, heretofore described. Thence I run S.89° 56' W.on a true line bet.secs.1 and 12, Gradually ascending ridge; through timber.</p>
34.75	Begin rapid ascent bears N. and S. 150 ft.above cor.
36.00	Top of ridge, 200 ft.above sec.cor. bears N.10° W. and S.10° E. Descend.
40.05	<p>Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 1 in N.half, S 12 in S.half; from which</p> <p>A pine 16 ins.dia.bears N.17° 50' E. 110 lks.dist. marked 1/4 S 1 B T</p> <p>A pine 24 ins.dia.bears S.82° E. 63 lks.dist. marked 1/4 S 12 B T</p>
56.00	<p>Corner stands on W.side of ridge, 50 ft.below top. Wash, 200 ft.below 1/4 sec.cor., 40 ft.wide, 10 ft.deep, course S. Ascend spur.</p>
57.25	<p>Top of spur, 60 ft.above wash, bears N. and S. Descend.</p>
61.50	<p>Wash, 60 ft.below spur, 80 lks.wide, 10 ft.deep, course S.25° E.</p>

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. Ascend.

80.10 The cor.of secs.1,2,11, and 12.

Land, mountainous.

Soil rocky; 4th rate.

Timber, yellow pine, pinon pine and cedars.

Mountainous land 80.10 chs.

Dec.13: At this cor.I set off $23^{\circ} 08'S$.on decl.arc;and at 11 h. 54 m.a.m.l.m.t.observe the sun on the
meridian; the resulting lat.is $37^{\circ} 04'N$.S. $0^{\circ} 01'E$.bet.secs.11 and 12.

Gradually ascending; throughscattering timber.

25.25 Top of ascent, 75 ft.above sec.cor., bears NW. and SE.

Descend abruptly over sandstone surface.

37.50 Foot of rapidXdescent, 150 ft.below top, bears N. $60^{\circ} W$.and S. $60^{\circ} E$. Descend gradually.40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the
ground, for $1/4$ sec.cor., marked on brass cap, $1/4$ S
11 in W.half, S 12 in E.half; from whichA pine 20 ins.dia.bears S. $40^{\circ} W$. 97 lks.dist.marked $1/4$ S 11 B TA cedar 12 ins.dia.bears N. $36^{\circ} E$. 14 lks.dist.marked $1/4$ S 12 B T47.50 Wash, 200 ft.below top of descent, 40 lks.wide, 5 ft.
deep, drains from NW.

Thence along wash.

53.30 Leave wash, drains S. $60^{\circ} E$.

Ascend.

69.25 Foot of ridge, 75 ft.above wash, bears N. $70^{\circ} E$. and S.
 $70^{\circ} W$. Ascend.75.80 Top of ridge, 150 ft.above foot, bears N. $70^{\circ} E$. and S.
 $70^{\circ} W$. Descend.80.00 Point for sec.cor.falls on smooth sandstone surface
12 x 14 ft.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. At exact point for sec.cor. I cut a cross "X", with 1 groove E.and 4 grooves S.of cross, for cor.of secs. 11,12,13, and 14; from which

A pine 16 ins.dia.bears N.45° W. 110 lks.dist.,
marked T 43 S R 10 W S 11 B T

A pine 12 ins.dia.bears S.30° E. 85 lks.dist..
marked T 43 S R 10 W S 13 B T

A pine 16 ins.dia.bears S.89° W. 75 lks.dist..
marked T 43 S R 10 W S 14 B T

No other bearing trees within limits; raise a mound of stone 4 ft.base, 2 ft.high W.of cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber; scattering cedar and pine.

Mountainous land 80.00 chs. Dec.13, 1909.

Dec.14: At 7 h. 55 m.a.m.1.m.t.I set off 37° 03' N.on lat.arc; 23° 09' S.on decl.arc; and determine a meridian with the solar at the cor.of secs.11,12,13, and 14; thence I run

N.89° 56'E.on a random line bet.secs.12 and 13,

40.00 Set temp.1/4sec.cor.

80.04 Intersect E.bdy.of Tp. at the cor.of secs.7,12,13, and 18, heretofore described. Thence I run

S.89° 56'W.on a true line bet.secs.12 and 13,

Ascending spur; through scattering timber.

0.85 Top of spur, 50 ft.above sec.cor., bears N. and S.
Descend.

4.10 Wash, 75 ft.below spur, 80 lks.wide, 4 ft.deep, course S.20° W. Ascend.

9.20 Top of spur, 100 ft.above wash, bears S.8 chs.
Descend.

13.25 Wash, 70 ft.below spur, 20 lks.wide, 10 ft.deep, course S.25° E.

SUE DIVISION OF T. 45. S., R. 10 W.

- Chains. Ascend.
- 21.50 Top of spur, 125 ft. above wash, bears N. and S. Descend.
- 22.60 Wash, 100 ft. below spur, 40 lks. wide, 10 ft. deep, course
S. 25° E.
Steep ascent.
- 35.80 Top of ascent, 125 ft. above wash, bears N. and S.
Thence over nearly level line, broken surface.
- 40.02 Point for 1/4 sec. cor. falls on sandstone surface, im-
possible to set iron post; mark a cross (X) 1/4 at
exact point, and at
- 40.85 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for witness 1/4 sec. cor., marked on brass cap,
W C 1/4 S 12 in N. half, S 13 in S. half; from which
A cedar 24 ins. dia. bears S. 31° W. 71 lks. dist.
marked W C 1/4 S 13 B T
A cedar 6 ins. dia. bears S. 58° 40' E. 31 lks. dist.
marked W C 1/4 S 13 B T
- 61.00 Descend into gulch.
- 65.00 Wash, 40 ft. below top of descent, 10 lks. wide, 4 ft.
deep, course S. 60° W.
From this point a round sandstone butte 300 ft. high, 8
chs. dia., bears S. about 3 chs. dist.
Ascend.
- 67.00 Foot of sandstone spur, bears NE. and SW. Ascend.
- 74.55 Top of spur, 75 ft. above foot, bears N. and S.
Round butte 25 ft. high 12 lks. N.
Descend.
- 80.04 The cor. of secs. 11, 12, 13, and 14.
Land, mountainous.
Soil, rocky; 4th rate.
Timber, scattering yellow pine, pinon pine, and cedars.
Mountainous land 80.04 chs.
Dec. 14: At this cor. I set off 22° 12' 0" on decl. arc;
and at 11 h. 55 m. a. l. m. t. observe the sun on the
meridian; the resulting lat. is 37° 03' N.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains	S.0° 01'E.bet.secs.13 and 14, Descending over very rough sandstone surface; through scattering timber.
35.50	Gulch, 600 ft.below sec.cor., course SE. Ascend.
40.00	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 14 in W.half, S 13 in E.half; from which A cedar 6 ins.dia.bears N.25° 30' E. 65 lks.dist. marked 1/4 S 13 B T No other bearing trees within limits; raise a mound of stone 4 ft.base, 2 ft.high W.of cor. From this cor.the main wash bears E. 3.50 chs.and drains S.
42.50	Top of ascent, 25 ft.above wash, bears E. and W. Descend.
45.40	Wash, 50 ft.below top of ascent, 15 lks.wide, 10 ft. deep, course E. Ascend.
55.50	Top of ascent, 80 ft.above wash, bears E. and W. Thence along slope of mountain, over nearly level line, surface rough.
80.00	Set a limestone 30 x 18 x 10 ins.22 ins.in the ground, for cor.of secs.13,14,23, and 24, with 1 notch on E. and 3 notches on S.edges; from which A cedar 10 ins.dia.bears N.75° 50'E. 35 lks.dist. marked T 43 S R 10 W S 13 B T A pine 10 ins.dia.bears N.25° W.43 lks.dist. marked T 43 S R 10 W S 14 B T No other bearing trees within limits; raise a mound of stone 4 ft.base, 2 ft .high W.of cor. Land, mountainous; very rough. Soil, sandstone surface and rocky; 4th rate. Timber, pinon pine and cedar. Mountainous land 80.00 chs.

Dec.14, 1909.

Ralph Smith
U.S. Deputy Surveyor

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	Dec.15: At 8 h. 55 m.a.m.1.m.t.I set off $37^{\circ} 02' N.$ on lat.arc; $23^{\circ} 14' S.$ on decl.arc; and determine a meridian with the solar at the cor.of secs.13,14,23, and 24.. Thence I run
	N. $89^{\circ} 56' E.$ on a random line bet.secs.13 and 24,
40.00	Set temp. $1/4$ sec.cor.
79.94	Intersect E.bdy.of Tp. 9 lks.N.of the cor.of secs.13, 18,19, and 24, heretofore described.
	Thence I run
	West on a true line bet.secs.13 and 24,
	Ascending mountain, through timber.
23.00	Top of mountain, 300 ft.above sec.cor., bears N. and S. Descend gently.
37.00	Top of ascent 25 ft.below top of mountain.
	Descend into Short Creek, over sandstone ledges; very rough and broken.
39.97	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $1/4$ sec.cor., marked on brass cap, $1/4$ S 13 in N.half, S 24 in S.half; from which
	A pine 14 ins.dia.bears N. $72^{\circ} 43' W.$ 98 lks.dist. marked $1/4$ S 13 B T
	A pine 8 ins.dia.bears S. $5^{\circ} 18' W.$ 82 lks.dist. marked $1/4$ S 24 B T
	Corner stands on E.side of Short Creek, 150 ft.below top of mountain.
65.00	Short Creek, 300 ft.below $1/4$ sec.cor., clear water, 10 lks.wide, 3 ins.deep, sandy bottom, course SW.
68.56	West bank of Short Creek; thence ascend mountain.
79.94	The cor.of secs.13,14,23, and 24.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, yellow pine, pinon pine, and cedars .
	Mountainous land 79.94 chs.
	Dec.15: At this cor.I set off $23^{\circ} 16' S.$ on decl.arc; and at 11 h. 55 m.a.m.1.m.t.observe the sun on the merid-

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains. ian; the resulting lat. is $37^{\circ} 02' N$.

S. $0^{\circ} 01' E$. bet. secs. 23 and 24,

Descending gently along side of mountain, on W. side of
Short Creek; through timber.

35.00 Descend into Short Creek.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $1/4$ sec. cor., marked on brass cap, $1/4$ S
23 in W. half, S 24 in E. half; from which

A pine 10 ins. dia. bears $N. 43^{\circ} 10' W$. 62 lks. dist.
marked $1/4$ S 23 B T

A pine 6 ins. dia. bears $S. 41^{\circ} 40' E$. 14 lks. dist.
marked $1/4$ S 24 B T

Corner stands on W. side of Short Creek about 75 ft.
below sec. cor.

60.50 Bank of Short Creek, 150 ft. below sec. cor., bears $N. 38^{\circ}$
E. and $S. 38^{\circ} W$.; leave timber.

60.70 Short Creek, 25 lks. wide, 2 ins. deep, clear water, sandy
bottom, course $S. 38^{\circ} W$.

Thence over bed of Short Creek.

73.50 Bank of Short Creek bears $S. 38^{\circ} W$.

Thence over nearly level, sandy land; Enter box-elder
trees.

80.00 Set a sandstone $28 \times 15 \times 7$ ins., 21 ins. in the ground,
for cor. of secs. 23, 24, 25, and 26, marked with 1 notch
on E. and 2 notches on S. edge; from which

A box-elder tree 10 ins. dia. bears $N. 49^{\circ} 55' W$. 116
lks. dist., marked T 43 S R 10 W S 23 B T

An oak 5 ins. dia. bears $N. 66^{\circ} 15' E$. 134 lks. dist.
marked T 43 S R 10 W S 24 B T

A box-elder tree 14 ins. dia. bears $S. 41^{\circ} E$. 301
lks. dist., marked T 43 S R 10 W S 25 B T

A box-elder 14 ins. dia. bears $S. 67^{\circ} 20' W$. 29 lks.

SUBDIVISION OF T. 45 S., R. 10 W.

Chains.	marked T 45 S R 10 W S 26 B T
	Land, nearly level and mountainous.
	Soil, sandy and rocky; 3d and 4th rates.
	Timber, pinon pine, cedars, boxelders, and oak.
	Mountainous land 60.50 chs.
	East on a random line bet.secs.24 and 25,
40.00	Set temp. 1/4 sec.cor.
79.80	Intersect E.bdy.of Tp. 76 lks.S.of the witness cor.to cor.of secs.19,24,25, and 30, set 90 lks.N.of the proper place, and heretofore described.
	Thence I run
	N.89° 54' W.on a true line bet.secs.24 and 25,
	Descending into wash, over sandstone surface.
14.00	Wash, 200 ft. below sec.cor., 60 lks.wide, 50 ft.deep, course N.
	Ascend through scattering timber.
26.00	Top of spur, 80 ft.above wash, bears N. and S. Descend.
37.80	Wash, 100 ft.below spur, 80 lks.wide, 12 ft.deep, course N.10° E. Ascend.
39.90	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 24 in N.half, S 25 in S.half; from which A pine 10 ins.dia.bears N.0° 40'E. 32 lks.dist. marked 1/4 S 24 B T A pine 6 ins.dia.bears S.24° 30'E. 60 lks.dist. marked 1/4 S 25 B T Corner is 50 ft.above wash, on W.side.
47.00	Top of ascent, 50 ft.above 1/4 sec.cor., bears N. and S.; thence on nearly level line.
56.60	Top of mountain bears N.20° W. and S.20° E. Descend abruptly; very rough and broken land.
78.00	Foot of mountain 400 ft.below top, bears N.20° W. and

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains. S.20° E. Enter boxelder and oaks; thence over level land.

79.80 The cor.of secs.23,24,25, and 26.

Land, mountainous and level.

Soil, sandy and rocky with sandstone near surface; 2d and 4th rates.

Timber, pinon pine, cedars, boxelders and oak.

Mountainous land 76.00 chs.

Dec.15, 1909.

Dec.16: At 7 h. 56 m.a.m.l.m.t.I set off 37° 02' N. on lat.arc; 23° 15' S.on decl.arc; and determine a meridian with the solar at the cor.of secs.23,24,25, and 26. Thence I run

S.0° 01' E.bet.secs.25 and 26,

Over nearly level sandy land; through boxelder and oak timber.

3.75 Wash, 40 lks.wide, 20 ft.deep, course N.70° W.

4.50 Foot of mountain, bears E. and W.; leave boxelder timber; enter pine and cedar timber.

Ascend mountain; very rough and broken.

24.75 Top of mountain, 400 ft.above foot, bears N.60° E. and S.60° W.

Ascend gently.

40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 26 in W.half, S 25 in E.half; from which

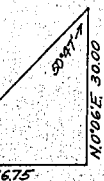
A pine 6 ins.dia.bears S.77° 20' E. 40 lks.dist. marked 1/4 S 25 B&T.

A cedar 12 ins.dia.bears S.11° 15' W. 23 lks.dist. marked 1/4 S 26 B T

43.50 Top of ascent, 30 ft.above top of mountain, bears

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	W.; thence along side of mountain, facing W.; very rough and broken.
73.00	Descend gradually.
80.00	Set a sandstone 14 x 8 x 6 ins., 9 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, marked with 1 notch on E. and S. edges; from which
	A pine 10 ins. dia. bears N. 26° 15' E. 72 lks. dist. marked T 43 S R 10 W S 25 B T
	A pine 16 ins. dia. bears N. 26° 20' W. 34 lks. dist. marked T 43 S R 10 W S 26 B T
	A pine 12 ins. dia. bears S. 30° E. 55 lks. dist. marked T 43 S R 10 W S 36 B T
	No other bearing trees within limits; raise a mound of stone 4 ft. base, 2 ft. high W. of cor.
	Land, level and mountainous.
	Soil, sandy and rocky; 2d and 4th rates.
	Timber, pinon pine, cedar, boxelder and oak.
	Mountainous land 76.25 chs.
	Dec. 16: At this cor. I set off 23° 18' S. on decl. arc; and at 11 h. 56 m. a. m. l. m. t. observe the sun on the meridian; the resulting lat. is 37° 01' N.
	S. 89° 54' E. on a random line bet. secs. 25 and 36,
40.00	Set temp. 1/4 sec. cor.
43.10	Top of butte and gulch, impossible to chain across. To determine the distance across I set a flag, on line 9 lks. N. of cor. of secs. 25, 30, 31, and 36, which is plainly visible.
	It being impossible to lay off a base line from this point I leave a flag at place, and then from flag at sec. cor. lay off a base line N. 0° 06' E. 30 chs. to a point; whence the flag on butte bears S. 59° 53'



SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	W.; therefore the dist. is $\tan. 50^{\circ} 47'$ x base, or 1.225×30.00 , which equals 36.75 chs., which added to 43.10 makes
79.85	Intersect E.bdy. of Tp. 9 lks. N. of the cor. of secs. 25, 30, 31, and 36, heretofore described. Thence I run N. $89^{\circ} 50'$ W. on a true line bet. secs. 25 and 36, Descending into gulch, over steep sandstone surface.
25.25	Wash, 200 ft. below sec. cor., 40 lks. wide, 4 ft. deep, course N. 15° W.; ascend butte.
36.75	Top of sandstone butte, 200 ft. above wash; descend abruptly.
39.93	Falls on side of butte on sandstone surface; impossible to set post for $1/4$ sec. cor.
47.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness cor. to $1/4$ sec. cor., marked on brass cap, W C $1/4$ S 25 in N. half, S 36 in S. half; from which A pine 14 ins. dia. bears N. $32^{\circ} 50'$ E. 34 lks. dist. marked W C $1/4$ S 25 B T A pine 6 ins. dia. bears S. $32^{\circ} 30'$ E. 81 lks. dist. marked W C $1/4$ S 36 B T Witness cor. stands at foot of butte, 200 ft. below top. Ascend gradually over sandy soil, through sagebrush undergrowth and scattering timber.
47.25	Wash, 10 lks. wide, 2 ft. deep, course N.
57.50	Top of ascent, 30 ft. above witness cor., bears N. and S. Descend.
64.00	Foot of ridge, 40 ft. below top of ascent, bears N. and S. Ascend. Leave sagebrush.
68.00	Top of mountain, 75 ft. above foot of ascent, bears N. and S. Descend.
79.85	The cor. of secs. 25, 26, 35, and 36. Land, mountainous. Soil, sandy and rocky; 3d and 4th rate.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. Timber, pinon pine, cedar.

Undergrowth sagebrush.

Mountainous land 79.85 chs.

S.0° 01'E. bet.secs.35 and 36,

Descending mountain sloping west, very rough and broken through timber.

22.00 Wash 200 ft.below sec.cor., 20 lks.wide, 10 ft.deep, course W. Ascend.

31.50 Top of ascent, 150 ft.above wash, bears E. and W. Thence over rough, broken surface.

36.00 Descend, bearing NW. and SE.

40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 35 in W.half, S 36 in E.half; from which

A cedar 8 ins.dia.bears N.39° 20'W. 23 lks.dist. marked 1/4 S 35 B T

A pine 8 ins.dia.bears S.25° 15'E. 16 lks.dist. marked 1/4 S 36 B T

58.49 Intersect Utah-Arizona boundary line 12.10 chs.W.of the 61st mile cor, which is a sandstone 12 x 10 x 8 ins. above the ground, marked and witnessed as described by the surveyor general.

Set a sandstone 20 x 15 x 6 ins., 15 ins.in the ground, for closing cor.of secs.35 and 36, marked with 1 groove on E. and 5 grooves on W.face, C C UTAH on N. and ARIZONA on S.face; from which

A pine 15 ins.dia.bears N.16° 30'W. 20 lks.dist. marked T 43 S R 10 W S 35 B T

No other bearing trees within limits; raise a mound of stone 4 ft.base, 2 ft.high N.of cor.

Land, mountainous.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. Soil, rocky; 4th rate.

Timber, pinon pine and cedar.

Mountainous land 58.49 chs. December 16, 1909.

Robert E. L. Callied

U.S. Deputy Surveyor.

Note:

It being so rough and broken and impossible to get over bet.secs.2 and 3, I proceed to the cor.of secs. 1,2,11, and 12.

Dec.15,1909: At 8 h.55m.a.m.l.m.t.I set off $23^{\circ}14'S$.

on decl.arc; $37^{\circ}04'$ N.on lat.arc, and determine a meridian with the solar at the cor.of secs.1,2,11, and 12. Thence I run

West on true line bet.secs.2 and 11

Gradually ascending, through scattering timber.

22.25 Top of ridge, 150 ft.above sec.cor., bears N. 10° W. and S. 10° E. Descend into wash: very rough.

35.50 Leave flag at this point for triangulation.

37.60 Wash 200 ft.below top of ridge; 30 lks.wide, 10 ft.deep, course S. 15° E. Ascend.

40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $1/4$ sec.cor., marked on brass cap, $1/4$ S 2 in N.half, S 11 in S.half; from which

A pine 12 ins.dia.bears N. $65^{\circ}30'W$. 15 lks.dist.
marked $1/4$ S 2 B T

A pine 10 ins.dia.bears S. $31^{\circ}W$. 52 lks.dist.
marked $1/4$ S 11 B T

Being unable to see top of ridge, I return to sta.at 35.50 chs.where I left a flag. I determine the dist- to top of ridge as follows: Set a flag on top of ridge then I lay off a base S.25.00 chs. to a point, from

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	which the flag on the ridge bears N.46° 40' W.; therefore the dist. is, $\tan. 46^{\circ} 40'$ x base, or 1.06 x 25.00 equals 26.50, which added to 35.50 makes
62.00	Top of ridge, 300 ft. above 1/4 sec. cor., bears N.20° E. and S.20° W. This ridge forms the divide between the drainage of the Rio Virgin and Short Creek. Descend abruptly.
68.00	Becomes so rough and broken impossible to chain over; therefore I offset as follows: S.0° 01' E. 12.00 chs. Thence west 12.00 chs. to
80.00	Set a sandstone 24 x 16 x 8 ins. in mound of stone for witness cor. to cor. of secs. 2, 3, 10, and 11, marked with 2 notches on E. and 5 notches on S. edges, W C on NE. face; and raise a mound of stone 4 ft. base, 2 ft. high W. of cor. Sandstone surface prevents setting stone in ground. Land, mountainous. Soil, rocky; 4th rate. Timber scattering pine and cedar. Mountainous land 80.00 chs. Dec. 15, 1909: At this cor. I set off 23° 16' S. on decl. arc and at 11h. 55m. a.m. 1.m.t. observe the sun on the meridian the resulting lat. is 37° 04' N.
Note: On account of impassable cliffs line bet. secs. 2 & 3 cannot be established.	
	From witness cor. to cor. of secs. 2, 3, 10, and 11 I run with continuous measurement S.0° 01' E. bet. secs. 10 and 11, Ascending knoll, over sandstone surface:
33.00	Top of knoll, 150 ft. above witness cor., bears W. and N.20° E. Descend.
40.00	Set an iron post 3 ft. long, 1 in. dia., 12 ins. in the ground, for 1/4 sec. cor., with mound of stone, 5 ft.

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SUBDIVISION OF T. 43 S., R. 10 W.

- Chains. base, 14 ins. high around it; impossible to set post over 12 i s. in the ground. Marked brass cap, $1/4$ S 10 in W. half, S 11 in E. half; and raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high W. of cor.
- Corner stands on S. side of knoll, 75 ft. below top.
- 64.00 Feet of knoll and wash, 200 ft. below $1/4$ sec. cor., 10 lbs. wide, 5 ft. deep, course E.
- Ascend.
- 64.75 Top of ascent, 25 ft. above wash, bears E. and W.
- Enter scattering timber bears E. and S.
- Descend.
- 80.00 Set a sandstone 18 x 12 x 2 ins., 12 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, marked with 2 notches on E. and 4 notches on S. edges; from which
- A pine 12 ins. dia. bears N. 22° W. 2.15 chs. dist.
marked T 43 S R 10 W S 10 E T
- A pine 20 ins. dia. bears N. 30° 30' E. 22 lbs. dist.
marked T 43 S R 10 W S 11 E T
- A pine 20 ins. dia., bears S. 64° 30' E. 64 lbs. dist.
marked T 43 S R 10 W S 14 E T
- A pine 10 ins. dia. bears S. 21° 15' E. 1.20 chs. dist.
marked T 43 S R 10 W S 15 E T
- Land, mountainous.
- Soil, sandstone surface; 4th rate.
- Timber, scattering yellow pine and pinon pine.
- Mountainous land 80.00 chs.
-
- Haat on a random line bet. secs. 11 and 14,
- 49.00 Set temp. $1/4$ sec. cor.
- 80.10 Intersect N. and S. line 12 lbs. S. of the cor. of secs. 11, 12, 13, and 14. Thence I run
- S. 60° 55' E. on true line bet. secs. 11 and 14,
- Descend into wash, over sandstone surface; very rough and broken; through scattering timber.

SUBDIVISION OF T. 43 S., R. 10 W.

- Chains.
- 10.00 Wash, 200 ft. below sec. cor., 30 lks. wide, 10 ft. deep, course S.15° E. Ascend.
- 19.50 Top of ridge, 150 ft. above wash, bears S.15° E. and N.15° W. Descend.
- 25.00 Foot of descent, 20 ft. below top, bears N. and S. Ascend mountain; very rough and broken.
- 40.05 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 11 in N. half, S 14 in S. half; from which
A pine 6 ins. dia. bears N.38° E. 32 lks. dist.
marked 1/4 S 11 B T
A pine 6 ins. dia. bears S.60° 20' E. 24 lks. dist.
marked 1/4 S 14 B T
Cor. stands on side of mountain facing NE., 350 ft. above foot of ascent.
- 44.00 Top of spur, 75 ft. above 1/4 sec. cor., projects 4 chs. north. Descend.
- 51.80 Wash, 250 ft. below spur, 50 lks. wide, 6 ft. deep, course N. Ascend.
- 54.00 Top of abrupt ascent; 75 ft. above wash, bears S. N. and S. Ascend gradually.
- 65.00 Abrupt descent, over sandstone surface and sandstone buttes, bearing N. and S.
- 80.10 The cor. of secs. 10, 11, 14, and 15.
Land, mountainous.
Soil, rocky; 4th rate.
Timber, pinon pine and cedar.
Mountainous land 80.10 chs.

December 15 1909.

Ralph H. Smith
U. S. Deputy Surveyor.

December 17: At this cor. I set off 23°18' S. on decl. arc 37°03' N. on lat. arc, at 7 h. 56 m. a.m. l.m.t., and determine a meridian with the solar at the cor. of secs. 10, 11, 14, and 15. Thence I run

SUBDIVISION T. 43 S., R. 10 W.

Chains.	S.0° 01'E.bet.secs.14 and 15, Descending over rough sandstone surface; through scat- tering timber.
4.00	Top of gulch, 300 ft.deep, bearing NW. and SE., over which it is impossible to chain. To determine the distance across gulch I set a flag on line on S.side, then measure a base N.89° 59'E. 15.00 chs. (it was impossible to set the flag with any long- er base) to a point, from which the flag bears S.29° 30'W.; from the flag the E.end of the base bears N. 29° 30'E.; therefore the distance is $\cotan. 29^\circ 31'$ x base, or 1.766×15.00 , equals 26.49, which added to 4.00 makes
30.49	S. top of gulch, 150 ft.above N.side, bears N.30° W. and S.30° E. Ascend over very rough broken surface.
39.50	Foot of ledge, 50 ft.high, bears NW. and SE.
40.00	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 15 in W.half, S 14 in E.half; from which A pine 24 ins.dia.bears S.22° E. 44 lks.dist.mkd. 1/4 S 14 B T A pine 14 ins.dia.bears S.44° W. 16 lks.dist.,mkd. 1/4 S 15 B T Corner stands on top of ledge, 200 ft.above top of gulch. Descend.
62.75	Foot of descent, 250 ft.below 1/4 sec.cor., Ascend.
75.00	Set a sandstone 12 x 10 x 8 ins., 8 ins.in the ground for witness cor.to cor.of secs.14,15,22, and 23, mkd. with 2 notches on E. and 3 notches on S.edges, W C on NE.face; from which A pine 10 ins.dia.bears S.86° E. 19 lks.dist. mkd. NW. Cor T 43 S R 10 W S 23 B T A pine 10 ins.dia., bears S.49° 30'W. 50 lks.dist.

N.89°59'E.

26.49

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	marked W C T 43 S R 10 W S 22 B T.
	Corner stands on top of gulch.
	A sandstone butte 50 ft. dia., 25 ft. high bears E. 40 lks. dist.
	Dec. 17, 1909: At this cor. I set off $23^{\circ} 21'$ S. on decl. arc; and at 11 h. 56 m. a.m. 1 m. t. observe the sun on the meridian; the resulting lat. is $37^{\circ} 02' N$.
79000	Top of perpendicular cliff, bears N. 10° E. and S. 5° W.
80000	impossible to chain over. Set a flag at this point. Point for cor. of secs. 14, 15, 22, and 23; corner not set. Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, scattering yellow pine and pinon pine.
	Mountainous land on 80.00 chs.
Note	Line bet. secs. 14 and 23 cannot be established on account of impassable cliffs.
	From the flag set at sta. 79.00 chs. bet. secs. 14 and 15 on top of cliffs
	S. $0^{\circ} 01'$ E. bet. secs. 22 and 23,
	Abrupt descent over cliffs; impossible to chain.
	To determine the distance I set a flag on line at the foot of cliffs, it being impossible to lay off a base line here, I proceed to the flag at the bottom from where I lay off a base N. $29^{\circ} 59'$ E. 24.00 chs. to a point from which the flag on top of cliffs bears N. $46^{\circ} 05'$ W.; therefore the dist. is $\tan. 43^{\circ} 56' \times$ base or $.963 \times 24.00$, which equals 23.11 chs., minus 1.00 ch. makes
22.11	Foot of cliffs 800 ft. below top, bears N. 10° E. and S. 5° W.
	Thence along mountain facing E., very rough and broken through timber.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $1/4$ sec. cor., marked on brass cap, $1/4$ S 22 in W. half, S 23 in E. half; and raise a mound of stones $2 \frac{1}{2}$ ft. base, 2 ft. high W. of cor.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.

- 70.50 Wash, 250 ft. below foot of cliffs, 50 ft. wide, 10 ft. deep, course E. Ascend.
- 80.00 Set a sandstone 20 x 10 x 6 ins., 15 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, marked with 2 notches on E., and S. edges; from which
- A cedar 12 ins. dia. bears N. 20° 30' W. 38 lks. dist. marked T 43 S R 10 W S 22 B T
- A cedar 10 ins. dia. bears N. 73° 15' E. 36 lks. dist. marked T 43 S R 10 W S 23 B T
- A pine 8 ins. dia. bears S. 57° 30' E. 75 lks. dist. marked T 43 S R 10 W S 26 B T
- A pine 8 ins. dia. bears S. 84° 30' W. 60 lks. dist. marked T 43 S R 10 W S 27 B T
- Land, mountainous.
- Soil, rocky; 4th rate.
- Timber, scrub pinon pine and cedars.
- Mountainous land 20.00 chs.

Dec. 17, 1909.

- Dec. 18 : At 7 h. 57 m. a. m. l. m. t. I set off 23° 20' S on decl. arc; 37° 02' N. on lat. arc, and determine a meridian with the solar at the cor. of secs. 22, 23, 26, and 27. Thence I run
- N. 89° 55' E. on a random line bet. secs. 23 and 26,
- 40.00 Set temp. 1/4 sec. cor.
- 79.80 Intersect N. and S. line 23 lks. N. of the cor. of secs. 23, 24, 25, and 26. Thence I run
- N. 89° 55' W. on true line bet. secs. 23 and 26,
- Over nearly level land; through scattering oaks and boulders.
- 3.70 Bank of Short Creek bears N. 38° E. and S. 38° W.
- 8.75 Short Creek, 10 lks. wide, 1 in. deep, clear water, sandy bottom, course S. 38° W.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	
11.60	West bank of Short Creek.
14.50	Leave boxelders and oak; enter cedars and pinon pine bearing W. and S. Ascend.
22.00	Top of ascent, 25 ft.above foot, bears W. and S. Descend slightly.
29.00	Leave timber, bears NW. and SE.
31.00	Descend to wash bears N. and S.
34.50	Wash, 25 ft.below top, with stream of clear water 10 lks.wide, 2 ins.deep, course S.15° E. Ascend.
35.90	Top of west bank 25 ft.above wash; thence over nearly level land.
39.90	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 23 in N.half, S 26 in S.half; and raise a mound of stone 2 1/2 ft.base, 2 ft.high N.of cor.
45.00	Enter scattering timber; ascend slightly.
62.50	Wash, 15 lks.wide, 5 ft.deep, course SE. Ascend mountain facing NE.; very rough.
79.80	The cor.of secs.22,23,26, and 27. Land, nearly level and mountainous. Soil, sandy and rocky; 2d and 4th rates. Timber, pinon pine, cedars,boxelders, and oak. Mountainous land 17.30 chs.
	S.0° 01'E.bet.secs.26 and 27, Ascending mountain facing NE.; very rough; through timber.
0.20	Foot of sandstone ledges, 20 ft.above sec.cor., bear N.25° W. and S. 25° E. Abrupt ascent; very rough.
9.00	Top of ascent or spur, 300 ft.above sec.cor., bears N. 20° W. and S.20° E. Descend.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	
22.55	Top of ledge, 125 ft. below top of spur, bears S. 70° W. and N. 70° E. Descend abruptly.
23.77	Foot of cliffs, 75 ft. below top, bear E. 5 chs., thence N. and S. 70° W. Descend over mountain.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 27 in W. half, S 26 in E. half; from which A cedar 10 ins. dia. bears S. 74° 20' E. 42 lks. dist. marked 1/4 S 26 B T A cedar 15 ins. dia. bears S. 66° 15' W. 41 lks. dist. marked 1/4 S 27 B T Corner stands on slope of mountain, 100 ft. below cliffs. Dec. 18 1909: At this cor. I set off 23° 23' S. on decl. arc and at 11 h. 57 m. a. m. l. m. t. observe the sun on the meridian; the resulting lat. is 37° 01' N.
42.75	Foot of mountain and intersection of two washes, draining from NE. and NW., 20 lks. wide, 4 ft. deep, course S. 15° W. Thence over nearly level line, broken surface.
59.30	Wash, 18 lks. wide, 3 ft. deep, course SE. Ascend.
63.00	Top of ascent, 30 ft. above wash, bears E. and W. Descend.
67.30	Wash 45 ft. below top of ascent, 60 lks. wide, 30 ft. deep. drains from W. to S. Thence along wash,
69.30	Leave wash drains S. 60° E. Ascend.
74.50	Foot of spur, bears NW. and SE.; ascend.
80.00	Set a sandstone 20 x 14 x 6 ins., 15 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, marked with 2 notches on E., and 1 on S. edges; from which A cedar 8 ins. dia. bears N. 52° E. 35 lks. dist. marked T 43 S R 10 W S 26 B T

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	<p>A cedar 12 ins.dia.bears N.61° 30'W. 62 lks.dist. marked T 43 S R 10 W S 27 B T</p> <p>A cedar 12 ins.dia., bears S.30° W. 25 lks.dist. marked T 43 S R 10 W S 34 B T</p> <p>A cedar 12 ins.dia.bears S.45° 30'E. 19 lks.dist. marked T 43 S R 10 W S 35 B T</p> <p>Land, mountainous.</p> <p>Soil, rocky; 4th rate.</p> <p>Timber, scattering cedar and pinon pine.</p> <p>Mountainous land 63.45 chs.</p>
40.00	S.89° 55'E.on a random line bet.secs.26 and 35, Set temp. 1/4 sec.cor.
79.94	Intersect N. and S. line 18 lks. N. of the cor. of Secs. 25, 26, 35, and 36.
	Thence I run
	N.89° 47'W.on true line bet.secs.26 and 35,
	Descending mountain, very rough and broken sandstone ledges; through timber.
8.50	Foot of ledges 300 ft.below sec.cor., bear N. and S. Surface becomes less broken.
24.50	Foot of mountain 400 ft.below sec.cor. Enter nearly level sandy land.
39.97	Set an iron post 3 ft.long, 1 in.dia. 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 26 in N.half, S 35 in S.half; from which
	An oak 8 ins.dia.bears N.21° 10'E. 69 lks.dist. marked 1/4 S 26 B T
	A cedar 6 ins.dia.bears S.56° 15'E. 63 lks.dist. marked 1/4 S 35 B T
42.00	Leave timber, bears NW. and SE.
57.35	East bank of Short Creek bears N.40° E. and S.40° W.
60.00	Short Creek, clear water, 10 lks.wide, 2 ins.deep, sandy bottom, course S.40° W.

SUBDIVISION OF T. 43 S.. R. 10 W.

Chains.

66.00	West bank of Short Creek.
73.50	Wash, 1 ch.wide, 20 ft.deep, course S.38° E.
75.50	Brush fence, bears N. and S.
77.00	Foot of spur, bears N.. and S.
	Enter timber, bears N. and S.
	Ascend.
79.94	The cor.of secs.26,27,34, and 35.
	Land, mountainous and nearly level.
	Soil, sandy and rocky; 2d and 4th rates.
	Timber, cedars, pinon pine and a few oak.
	Mountainous land 27.44 chs.
	Timbered land 44.44 chs.
S.0° 01'E.bet.secs.34 and 35,	
	Descending from spur; through timber.
4.50	Fence bears E. and W.
	Foot of spur, 30 ft.below sec.cor., bears NE. and SW.
	Corral bears E.4.50 chs.
11.50	Road bears NE. and SW.
21.80	Wire fence bears S.30° W. and N.30° E.
	Point for $\frac{1}{4}$ sec.cor.will fall in bed of Short Creek;
	therefore at
35.25	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the
	ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 34 in
	W.half, S 35 in E.half; dig pits 18 x 18 x 12 ins.N.
	and S.of post 3 ft.dist.; and raise a mound of earth
	4 ft.base, 2 ft.high W.of cor.
36.50	Bench of Short Creek, bears NE. and SW.
40.00	Point for $\frac{1}{4}$ sec.cor.falls in bed of Short Creek; corner
	not set. Stream 10 lks.wide, course SW.
46.85	Bank of Short Creek, bears NE. and SW.
58.90	Intersect Utah-Arizona Bdy.line 11.47 chs.W.of the 60.19
	mile post, which is a sandstone 20 x 12 x 6 ins.above

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.

ground, marked and witnessed as described by the surveyor general.

Set a sandstone 18 x 15 x 8 ins., 12 ins. in the ground, for closing cor. of secs. 34 and 35, marked with 2 grooves on E. and 4 grooves on W. face, C C UTAH on N. and ARIZONA on S. face; dig pits 24 x 16 x 12 ins. crosswise on each line E. and W. 3 ft., and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft. base, 2 ft. high N. of cor.

A lone cedar, 12 ins. dia., bears N. 79° 55' E. 4.12 chs. dist. mkd. C C T 43 S R 10 W S 35 B T

Land, mountainous and nearly level.

Soil, sandy and rocky; 2d and 4th rate.

Timber, cedar and pinon pine.

Mountainous land 4.50 chs.

Timbered land 4.50 chs.

Dec. 18, 1909.

Robert E. R. Collins

U.S. Dep. Surveyor.

Dec. 16, 1909: At 7 h. 56 m. a.m. l.m.t. I set off 23° 15' S. on decl. arc; 37° 05' N. on lat. arc; and determine a meridian with the solar at the witness cor. to cor. of secs. 3, 4, 33, and 34, 8.00 chs. S. of true cor. point, and heretofore described. Thence I run, with continuous measurement,

S. 0° 02' E. bet. secs. 3 and 4,

Over nearly level land, sloping E.; through scattering timber and undergrowth.

36.50 Wash, 10 lbs. wide, 2 ft. deep, course E. Ascend gently.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground; for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 4 in W. half S 3 in E. half; from which

A pine, 12 ins. dia., bears S. 73° 30' E. 122 lbs. dist.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. marked $1/4$ S 3 B T
 A pine 10 ins.dia., bears N. 3° W. 34 lks.dist.
 marked $1/4$ S 4 B T

49.25 Top of gulch, bears NE. and W.
 Descend over rolling sandstone surface.

59.40 Wash, 100 ft.below top, 40 lks.wide, 4 ft.deep, course
 E. Ascend.

62.00 Top of ascent 30 ft.above wash, bears E.
 Descend.

68.00 Wash, 20 ft.below top of ascent, 10 lks.wide, 3 ft.deep,
 course E. Ascend.

69.75 Top of ascent 20 ft.above wash, bears E.
 Descend.

74.50 Wash 10 ft.below top of ascent, 20 lks.wide, 4 ft.deep,
 course N. 15° E.
 Ascend gradually.

80.00 Set a sandstone 12 x 12 x 6 ins.8 ins.in.the ground,
 for cor.of secs. 3,4,9, and 10, marked with 3 notches
 on E. and 5 notches on S.edges; from which
 A pine 10 ins.dia.bears N. 54° 30'E. 97 lks.dist.
 marked T 43 S R 10 W S 3 B T
 A pine 16 ins.diam.bears N. 83° W. 98 lks.dist.
 marked T 43 S R 10 W S 4 B T
 A pine, 12 ins.dia.bears S. 49° 30'W. 120 lks.dist.
 marked T 43 S R 10 W S 9 B T
 A pine 12 ins.dia., bears S. 52° E. 97 lks.dist.
 marked T 43 S R 10 W S 10 B T

Land, mountainous.
 Soil, sandy and rocky; 2d and 4th rate.
 Timber, scattering yellow pine.
 Undergrowth brush.
 Mountainous land 80.00 chs.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	East on a random line bet.secs.3 and 10,
40.00	Set temp. 1/4 sec.cor.
60.04	To point on top of spur, which breaks off into head of South Creek, impossible to get over; therefore I offset as follows: South 12.00 chs.; thence East on offset line through sec.10,
80.04	Intersect N. and S.line 7 lks.N.of the witness cor. to cor.of secs. 2,3,10, and 11. Thence I run N.89° 57'W. on offset line through sec.10 20.00 chs. offset N.0° 03'E. 12.00 chs.to a point on true line bet.secs.3 and 10, Thence I run N.89° 57'W. on true line bet.secs.3 and 10, Descending over sandstone surface.
27.00	Foot of ascent, or swale, 20 ft.below top. Ascend.
38.00	Top of ascent, 20 ft.above bottom of swale, bears N. and S. Descend; enter scattering timber.
40.02	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 3 in N.half, S 10 in S.half; from which A pine 16 ins.dia.bears N.79° E. 1.31 chs.dist. marked 1/4 S 3 B T A pine 8 ins.dia.bears S.37° 45'E. 50 lks.dist. marked 1/4 S 10 B T Dec.16,1909: At this cor.I set off 23°18' S on decl. arc; and at 11h. 56m. a.m.1.m.t.observe the sun on the meridian; the resulting lat.is 37°04'N.
42.25	Wash, 30 ft.below top of ascent, 8 lks.wide, 4 ft.deep, course N. Ascend gradually.
70.50	Top of ascent 50 ft.above foot, bears N. Descend into gulch.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.
80.04

The cor.of secs.3,4,9, and 10.

Land, mountainous.

Soil, rocky; 4th rate; sandstone surface.

Timber, scattering yellow pine.

Mountainous land 80.04 chs.

S.0° 02'E. bet.secs.9 and 10,

Ascending from gulch, sandstone surface; scattering timber.

17.50 Top of gulch 150 ft.above sec.cor., bears NE. and SW.
Ascend gradually.

36.50 Top of mountain, 50 ft. above top of gulch, bears E.
and W.
Descend into gulch.

40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the
ground, for 1/4 sec.cor., marked on brass cap, 1/4 S
9 in W.half, S 10 in E.half; from which
A pine 8 ins.dia.bears S.33° W. 76 lns.dist.
marked 1/4 S 9 B T
A pine 7 ins.dia.bears N.80° 30'E. 84 lns.dist.
marked 1/4 S 10 B T

Leave scattering timber, bear E. and W.

55.50 Wash, 200 ft.below top of mountain, 1 ch.wide, 50 ft.
deep, course S.80° E. Ascend very rough spur.

60.00 Enter scattering timber.

79.00 Top of spur, 200 ft.above gulch, bears NW. and SE.

80.00 Point for sec.cor.falls on sandstone surface.

At exact point for corner I cut a cross (X) with 3
grooves E. and 4 grooves S.of cross; also

Set a sandstone 12 x 12 x 6 ins., in round of stone
for cor.of secs. 9,10,15, and 16, marked with 3 notches
on E. and 4 notches on S.edges; from which

A pine 7 ins.dia.bears N.61° 40'E. 101 lns.dist.
marked T 43 S R 10 W S 10 B T

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. A pine 3 ins.dia.bears S.20° W. 52 lks.dist.

marked T 43 S R 10 W S 16 B T

No other bearing trees within limits; raise a round of stone 2 1/2 ft.base, 2 ft.high W.6f cor.

Land, mountainous.

Soil, rocky sandstone surface; 4th rate.

Timber, scattering yellow pine.

Dec.16,1909.

Dec.17,1909: At 7 h.56 m.a.m.lm.t.I set off 23° 18' S. on decl.arc;37° 03' N.on lat.arc; and determine a meridian with the solar at the cor.of secs. 9,10,15, and 16. Thence I run

S.89° 57'E. on a random line bet.secs.10 and 15,

40.00 Set temp. 1/4 sec.cor.

62.00 To top of gulch, impossible to chain.

To determine the distance across gulch I set a flag on line on E.side; then lay off a base line S.0° 03'W. 15.00 chs. to a point, from which the flag bears N. 36° 55'E.; from the flag the S.end of base line bears S.36° 55'W.; therefore the dist. across gulch is $\tan. 36° 52' \times \text{base}$, or $.750 \times 15.00$, equals 11.25 chs., which added to 62.00 chs.makes

73.25 To E.side of gulch.

80.10 Intersect W. and S.line 20 lks.S.of the cor.of secs.10, 11,14, and 15. Thence I run

S.89° 54'W.on true line bet.secs.10 and 15,

Ascending over rough broken surface; through scattering timber.

6.85 Top of deep gulch, 10 ft.above sec.cor., bears S.30° E. Descend abruptly.

10.50 Wash, 250 ft.below top, 20 lks.wide, 6 ft.deep, course S.30° E. Ascend.

18.10 Top of gulch 250 ft.above wash bears SE. and NW.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	Thence along N. side of gulch; ascend gently; rough broken surface.
40.05	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 10 in N. half, S 15 in S. half; from which A pine 8 ins. dia. bears N. $54^{\circ} 30' W.$ 71 lks. dist. marked $\frac{1}{4}$ S 10 B T A pine 12 ins. dia. bears S. $88^{\circ} 15' E.$ 82 lks. dist. marked $\frac{1}{4}$ S 15 B T
48.00	Descend into wash, bears NW. and SE.
51.60	Wash, 30 ft. below top of ascent, 10 lks. wide, 4 ft. deep, course SE. Ascend.
60.25	Top of spur, 50 ft. above wash, bears NW. and S. Descend.
70.50	Foot of descent, 30 ft. below spur; ascend.
73.50	Begin rapid ascent of sandstone spur, bears E. and S.
80.10	The cor. of secs. 9, 10, 15, and 16. Land, mountainous. Soil, rocky; 4th rate. Timber, yellow pine and pinon pine. Mountainous land 20.10 chs. Dec. 17, 1909: At this cor. I set off $23^{\circ} 21'$ S. on decl. arc; and at 11 h. 56 m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is $37^{\circ} 03' N.$
	S. $0^{\circ} 02' E.$ bet. secs. 15 and 16, Descending into wash over sandstone surface.
5.00	Wash, 75 ft. below sec. cor., 20 lks. wide, 10 ft. deep, course SE. Ascend.
8.75	Top of spur, 75 ft. above wash, bears SE. and NW. Descend through scattering timber.
27.50	Wash, 150 ft. below spur, 50 lks. wide, 4 ft. deep, course

SUBDIVISION OF T. 43 S. R. 10 W.

Chains.	N.60° E. Ascend.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 16 in W. half, S 15 in E. half; from which A pine 8 ins. dia. bears S. 53° 15' E. 68 lks. dist. marked $\frac{1}{4}$ S 15 B T A pine 12 ins. dia., bears N. 35° 45' W. 70 lks. dist. marked $\frac{1}{4}$ S 16 B T
49.55	Top of ascent 100 ft. above wash. Descend gradually.
52.75	Wash, 15 ft. below top of ascent, 20 lks. wide, 2 ft. deep, course N. 30° E. Ascend gradually over sandy soil.
80.00	Set a sandstone 12 x 12 x 6 ins., 8 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, marked with 3 notches on S. and E. edges; from which A pine 24 ins. dia. bears N. 29° 20' E. 1.39 chs. dist. marked T 43 S R 10 W S 15 B T A pine, 12 ins. dia. bears N. 74° 15' W. 82 lks. dist. marked T 43 S R 10 W S 16 B T A pine 24 ins. dia. bears S. 77° 30' W. 2.15 chs. dist. marked T 43 S R 10 W S 21 B T A pine 20 ins. dia. bears S. 48° 40' E. 2.44 chs. dist. marked T 43 S R 10 W S 22 B T Land, mountainous. Soil, sandy and rocky; 2d and 4th rate. Timber, yellow pine. Mountainous land 80.00 chs.
40.00	N. 89° 54' E. on random line bet. secs. 15 and 22, Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line 4.81 chs. S. of the witness cor. for cor. of secs. 14, 15, 22, and 23. Thence I run N. 89° 58' W. on true line bet. secs. 15 and 22,

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. Ascending over sandstone surface.

10.00 Top of rapid ascent, 100 ft. above corner, bears N. and S. Enter scattering timber; gradually ascending.

26.00 Top of spur, projects N.

39.98 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 15 in N. half, S 22 in S. half; from which

A pine 24 ins. dia. bears N. $55^{\circ} 45' E.$ 1.79 chs. dist. marked $\frac{1}{4}$ S 15 B T

A pine 20 ins. dia. bears S. $51^{\circ} 50' W.$ 1.20 chs. dist. marked $\frac{1}{4}$ S 22 B T

Descend.

42.00 Begin rapid descent, over sandstone bearing NW. and S.

57.25 Wash, 200 ft. below $\frac{1}{4}$ sec. cor., 30 lks. wide, 5 ft. deep, course NW. Ascend abruptly.

63.00 Top of ascent, 200 ft. above wash, bears N. and S. Descend.

79.98 The cor. of secs. 15, 16, 21, and 22.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, yellow pine.

Mountainous land 79.98 chs. December 17, 1909.

Dec. 18, 1909: At 7 h. 57 m. a.m. l.m.t. I set off $23^{\circ} 20' S.$ on decl. arc; $37^{\circ} 02' N.$ on lat. arc; and determine a meridian with the solar at the cor. of secs. 15, 16, 21, and 22. Thence I run

$S. 0^{\circ} 02' E.$ bet. secs. 21 and 22,

Gradually ascending; through scattering timber.

9.50 Top of deep gulch, draining SE., over which it is impossible to chain. I set a flag on line on S. side of gulch; then measure a base N. $89^{\circ} 58' E.$ 16.00 chs. to a point; from which the flag bears S. $38^{\circ} 25' W.$; From

N. $89^{\circ} 58' E. 16.00$
51' 33"

20/6

SUBDIVISION OF T. 43 S., R. 10 W.

Chains	<p>to flag the east end of base bears N.38° 25'E.; therefore the dist. is $\cotan. 58^\circ 27'$ x base, or 1.26×16.00 equals 20.16, which added to 9.50, makes</p>
22.66	<p>To S. side of gulch.</p> <p>Thence ascend over very rough surface.</p>
26.00	<p>Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap, $\frac{1}{4}$ S 21 in W. half, S 22 in E. half; from which</p> <p>A pine 10 ins. dia. bears S.73° 12'W. 105 lks. dist. marked $\frac{1}{4}$ S 21 B T</p> <p>A pine 30 ins. dia. bears N.20° E. 77 lks. dist. mkd. $\frac{1}{4}$ S 22 B T</p>
48.00	<p>Top of cliffs, bearing N.20° E. and S.5° W., over which it is impossible to chain.</p> <p>To determine the distance I set a flag at foot of cliff. It being impossible to lay off a base from this point I leave a flag and from the flag at foot of cliffs I lay off a base N.89° 58'E. 20.00 chs. to a point, from which the flag on top of cliffs bears N.40° 48'W.; therefore the distance is $\cotan. 40^\circ 46'$ x base, or 1.160×20.00 equals 23.20, which added to 48.00 makes</p>
71.20	<p>To foot of cliffs, 800 ft. below top, bear S.5° W. and N.30° E.</p> <p>Descend very rough mountain.</p>
80.00	<p>Set a sandstone 20 x 10 x 8 ins., 15 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, marked with 3 notches on E. and 2 notches on S. edges; from which</p> <p>A cedar 10 ins. dia. bears N.66° 45'W. 20 lks. dist. marked T 43 S R 10 W S 21 B T</p> <p>A pine 10 ins. dia. bears N.89° E. 23 lks. dist. marked T 43 S R 10 W S 22 B T</p> <p>A pine 6 ins. dia. bears S.67° 40'E. 31 lks. dist. marked T 43 S R 10 W S 27 B T</p> <p>A pine 6 ins. dia. bears S.23° W. 72 lks. dist. marked</p>

23.12
S.E. 2000

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. T 43 S R 10 W S 28 B T

Land, mountainous.

Soil, rocky 4th rate.

Timber, yellow pine and pinon pine.

Mountainous land 80.00 chs.

Dec. 18 1909: At this cor. I set off $23^{\circ}23'$ S. on decl. arc;
and at 11 h. 57 m. a. m. l. m. t. observe the sun on the
meridian; the resulting lat. is $37^{\circ}02'N$.

40.00 S. $29^{\circ}58'E$. on a random line bet. secs. 22 and 27,
Set temp. $1/4$ sec. cor.

79.90 Intersect N. and S. line 14 lks. S. of the cor. of secs. 22
23, 26, and 27. Thence I run, through scattering timber.
S. $29^{\circ}56'W$. on a true line bet. secs. 22 and 27,
Ascending mountain, very rough, over sandstone ledges

1.00 Top of ledges bearing NW. and SE.

16.25 Top of spur, 300 ft. above sec. cor., bears NW. and SE.
Descend.

28.50 Top of cliffs, 125 ft. below top of spur, bear S. $25^{\circ}E$.
and N. $25^{\circ}W$.

30.25 Foot of cliffs, 200 ft. below top.
Descend over rough mountain.

32.00 Foot of mountain, 100 ft. below foot of cliffs, bears
N. $30^{\circ}W$. and S. $30^{\circ}E$.
Thence over nearly level land; few scattering oaks.

39.95 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $1/4$ sec. cor., marked on brass cap, $1/4$ S
22 in N. half, S 27 in S. half; from which
An oak 6 ins. dia. bears N. $83^{\circ}30'W$. 35 lks. dist.
marked $1/4$ S 22 B T
An oak 6 ins. dia. bears S. $75^{\circ}45'E$. 21 lks. dist.
marked $1/4$ S 27 B T

41.60 Wash, 30 lks. wide, 35 ft. deep, course S.

44.10 Foot of mountain bears N. and S. Ascend; very rough.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.

61.80 Top of spur, 350 ft. above foot, projects 13 chs. S.

Descend.

79.90 The cor. of secs. 21, 22, 27, and 28.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, pinon pine, cedars, and oak.

Mountainous land 79.90 chs.

December 18 1909.

Ralph H. Henty
U.S. Deputy Surveyor.

Dec. 19:: At 9 h. 57 m. a. m. l. m. t. I set off $23^{\circ}24'$ S. on decl. arc; $37^{\circ}02'$ N. on lat. arc, and determine a meridian with the solar at the cor. of secs. 21, 22, 27, and 28. Thence I run

S. $0^{\circ}02'$ E. bet. secs. 27 and 28,

Over mountain; descending through timber.

10.50 Wash, 100 ft. below sec. cor.; 30 lks. wide, 10 ft. deep, course SE.

Ascend mountain, very rough and broken.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $1/4$ sec. cor., marked on brass cap, $1/4$ S 28 in W. half, S 27 in E. half; and raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high W. of cor.

This cor. is about 350 ft. above gulch.

63.75 Top of mountain, 150 ft. above $1/4$ sec. cor., bears N. 35° W. and S. 35° E.

Descend.

80.00 Set a sandstone $14 \times 10 \times 8$ ins., 9 ins. in the ground for cor. of secs. 27, 28, 33, and 34, marked with 3 notches on E. and 1 notch on S. edges; from which

A pine 12 ins. dia. bears N. 77° E. 1.10 chs. dist.

marked T 43 S R 10 W S 27 B T

A pine 8 ins. dia. bears N. $83^{\circ}20'$ W. 1.79 chs. dist.

marked T 43 S R 10 W S 28 B T

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	<p>A pine 6 ins.dia.bears S.41° W. 17 lks.dist., marked T 43 S R 10 W S 33 B T</p> <p>A pine 8 ins.dia.bears S.27° 55'E. 1.81 chs.dist. marked T 43 S R 10 W S 34 B T</p> <p>Land, mountainous.</p> <p>Soil, rocky; 4th rate.</p> <p>Timber, cedar and pinon pine.</p> <p>Mountainous land 80.00 chs.</p> <p>Dec.19, 1909: At this cor.I set off 23°24' S.on decl. arc, and at 11 h.57 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 37° 01'N.</p>
40.00	N.29° 56'E. on a random line bet.secs.27 and 34, Set temp. 1/4 sec.cor.
79.84	Intersect N. and S.line 141 lks.S.of the cor.of secs.26, 27, 34, and 35. Thence I run S.89° 50'W.on true line bet.secs.27 and 34, Ascending spur; through timber.
2.25	Top of spur, 30 ft.above sec.cor., bears NW and SE. Descend gradually.
27.50	Foot of descent, 20 ft.below spur, bears NW. and SE. Fence bears NW. and SE. Ascend.
37.00	Top of ascent, 20 ft.above foot, bears NW. and SE. Descend.
39.92	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 27 in N.half, S 34 in S.half; from which
	A cedar 6 ins.dia.bears N.67° E. 36 lks.dist. marked 1/4 S 27 B T
	A pine 10 ins.dia.bears S.68° 45'W. 149 lks.dist. marked 1/4 S 34 B T
45.00	Wash, 40 ft.below top of ascent, 30 lks.wide, 10 ft. deep, course S.60° E. Ascend.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	
76.00	Top of spur, 400 ft. above wash, bears NW. and SE. Descend.
79.84	The cor. of secs. 27, 28, 33, and 34. Land, mountainous. Soil, rocky; 4th rate. Timber, cedar and pinon pine. Mountainous land 79.84 chs.
	S. 0° 02' E. bet. secs. 33 and 34, Descend slightly; through timber, over rough mountain.
4.00	Top of spur, 20 ft. below sec. cor., bears NE. and SW. Descend along E. slope.
8.00	Foot of descent, 10 ft. below top; ascend.
14.50	Top of spur, 10 ft. above foot of descent, bears S. 15° E. and N. 15° W. Descend.
39.50	Foot of mountain 150 ft. below top, bears E. and W. Thence over nearly level sandy land.
40.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 33 in W. half, S 34 in E. half; from which A cedar 16 ins. dia. bears S. 30° 10' W. 95 lks. dist. marked 1/4 S 33 B T A cedar 7 ins. dia. bears S. 45° E. 41 lks. dist. mkd. 1/4 S 34 B T
42.00	Leave timber, bears E. and W.
58.61	Intersect Utah-Arizona Boundary line 3.96 chs. E. of the 59 mile cor., which is a sandstone 12 x 10 x 5 ins. above ground, marked and witnessed as described by the surveyor general. Set a sandstone 20 x 8 x 6 ins., 15 ins. in the ground, for closing cor. of secs. 33 and 34, marked with 3 grooves on E. and W. faces; dig pits 24 x 12 x 12 ins. crosswise on each line E. and W. of stone 3 ft. and N. of stone 7 ft. dist.; and raise a mound of earth 4 ft.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. base, 2 ft. high N. of cor.

A lone cedar 24 ins. dia., bears N. $76^{\circ} 15' W.$ 2.49

chs. dist., mkd. C C T 43 S R 10 W S 33 B T

Land, nearly level and mountainous.

Soil, sandy and rocky; 2d and 4th rates.

Timber, cedar and pinon pine, 42.00 chs.

Mountainous land 39.50 chs.

Dec. 19, 1909.

Robert E. L. Collins

U. S. Dep. Surveyor.

Dec. 19: At 7 h. 57 m. a. m. l. m. t. I set off $37^{\circ} 05' N.$ on lat. arc; $23^{\circ} 21' S.$ on decl. arc; and determine a meridian with the solar at the witness cor. of secs. 4, 5, 32 and 33, set 10.00 chs. S. of true cor. point: and heretofore described.

Thence I run, with continuous measurement,

$S. 0^{\circ} 03' E.$ on true line bet. secs. 4 and 5,

Ascending gradually over rough broken surface; through timber.

36.00 Top of ascent, 100 ft. above witness cor., bears E. and W. Descend.

40.00 Set an iron post 3 ft. long, 1 in. dia., 12 ins. in the ground, with mound of stone 5 ft. base, 14 ins. high around it, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 5 in W. half, S 4 in E. half; from which

A pine 10 ins. dia. bears N. $74^{\circ} 15' E.$ 127 lks. dist. marked $\frac{1}{4}$ S 4 B T

A pine 8 ins. dia. bears N. $75^{\circ} 30' W.$ 1.26 chs. dist. marked $\frac{1}{4}$ S 5 B T

Impossible to set post over 12 ins. in the ground.

40.75 Wash, 30 ft. below top of ascent, 20 lks. wide, 10 ft. deep, course N. $80^{\circ} W.$

SUBDIVISION OF T. 43 S., R. 10 W., S. 10

Chains. Ascend.

50.00 Top of ridge, 75 ft. above wash, bears N. 30° W. and S. 30° E.
 Descend abruptly into wash; leave timber, bears E. and W.
 Thence ascend from wash, over rolling sandstone over which it is impossible to chain.
 To determine the distance to top of sandstone I set a flag on line on top; then measure a base line S. $89^{\circ} 57'$ W. 16.00 chs. to a point, from which the flag bears S. $45^{\circ} 17'$ E.; from the flag the west end of the base bears N. $45^{\circ} 17'$ W.; therefore the distance is $\tan 44^{\circ} 46'$ x base, or 0.992×16.00 , equals 15.87 chs., which added to 50.00 makes

65.87 Top of sandstone ledge, which is 200 ft. above point of triangulation, bears E. and W.

Ascend over sandstone surface.

79.00 Enter timber, bears E. and W.

80.00 Set a sandstone 12 x 10 x 6 ins., 8 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, marked with 4 notches on E. and 5 notches on S. edges; from which

A pine 24 ins. dia. bears N. $32^{\circ} 30'$ E. 1.28 chs. dist.

marked T 43 S R 10 W S 4 B T

A pine, 24 ins. dia. bears N. $67^{\circ} 30'$ W. 23 lks. dist.

marked T 43 S R 10 W S 5 B T

A pine 7 ins. dia. bears S. 60° W. 56 lks. dist.

marked T 43 S R 10 W S 8 B T

A pine, 20 ins. dia. bears S. $80^{\circ} 45'$ E. 80 lks. dist.

marked T 43 S R 10 W S 9 B T

Land, mountainous.

Soil, rocky; 4th rate.

Timber, yellow pine.

Mountainous land 80.00 chs.

Dec. 19: At this cor. I set off $23^{\circ} 24'$ S. on decl. arc; and at 11 h. 57 m. a. m. l. m. t., observe the sun on the meridian; the resulting lat. is $37^{\circ} 04'$ N.

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains.

- East on a random line bet.secs.4 and 9,
 40.00m Set temp. 1/4 sec.cor.
 80.10 Intersect N. and S.line 7 lks.S.of the cor.of secs.3,4,
 9, and 10. Thence I run
 S.89° 57'W.on true line bet.secs.4 and 9,
 Descending slightly, through timber.
 3.60 Wash 20 ft.below sec.cor., 20 lks.wide, 3 ft.deep,
 course NE.
 Ascend from gulch, over sandstone surface.
 10.00 Top of gulch 100 ft.above wash, bears N.30° E. and S.
 30° W. Ascend gradually.
 26.00 Wash 10 lks.wide, 4 ft.deep, course N.75° E.
 40.05 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the
 ground, for 1/4 sec.cor., marked on brass cap, 1/4 S
 4 in N.half, S 9 in S.half; from which
 A pine 6 ins.dia.bears N.15° 30'E. 31 lks.dist.
 marked 1/4 S 4 B T
 A pine 16 ins.dia.bears S.41° 20'E. 99 lks.dist.
 marked 1/4 S 9 B T
 50.00 Gulch 3 chs.wide, 50 ft.deep, course NW. Ascend.
 57.00 Top of ascent, 75 ft.above 1/4 sec.cor.
 Descend gradually along top of gulch facing N.
 80.10 The cor.of secs.4,5,8, and 9.
 Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, pinon pine and yellow pine.

Dec.19, 1909.

Calvin Smith
 U.S. Deputy Surveyor.

Note:

In the examination of original work the Examiner of
 Surveys found the distance bet.secs.8 and 17 to be out
 of limits; I therefore resurvey this line as follows:
 Apr.8, 1910: To test the adjustments of my solar appa-

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. ratus I proceed as follows: Instrument described in book "E" of this survey.

At 4 h. 02 m.p.m.1.m.t.I set off $37^{\circ} 04' N.$ on the lat. arc; $7^{\circ} 11' N.$ on decl. arc; and determine with the solar a meridian, and mark a point thereof on a stake firmly driven in the ground 5 chs.N. of the cor. of secs.

At 4, 5, 8, 17 and p 9, lat. $37^{\circ} 04' N.$ and long. $112^{\circ} 57' W.$

At 6 h. 17 m.p.m.1.m.t.I observe Polaris at western elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground 5 chs.N. of my station.

April 8, 1910.

Apr. 9: At 7 h. 00 m.a.m.1.m.t.I lay off the azimuth of Polaris $1^{\circ} 28'$ to the east, and mark the meridian thus determined by driving a small nail in the stake set Apr. 8, on which the meridian falls 0.3 ins. east of the mark determined by the solar.

At 8 h. 02 m.a.m.1.m.t.I set off $37^{\circ} 04' N.$ on lat. arc; $7^{\circ} 26' N.$ on decl. arc; and mark a point in the meridian determined with the solar by a tack driven in the wooden peg already set 5 chs.N. of my station; this mark falls 0.2 ins.E. of the meridian established by the Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0' 26''$ west and $0' 11''$ east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h 30m a.m. is $N. 16^{\circ} W.$; the angle thus determined gives the mag. decl. $N. 16^{\circ} E.$

From the cor. already described I run

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	S.0° 03'E.bet.secs.8 and 9, Ascending through scattering timber.
8.75	Top of gulch, 40 ft.above sec.cor., bears N.75° E. and S.75° W. Ascend gradually, over sandy land..
37.00	Top of mountain 75 ft.above top of gulch, bears E. and W. Descend over sandstone surface.
39.70	The old 1/4 sec.cor.set by Deputy Gentry Dec.18, 1909 bears E. 62 lks.dist. I destroy all trace of same and at
40.00	Set an iron post 3 ft.long, 1 in.dia., 12 ins.in the ground, with mound of stone 5 ft. base, 14 ins.high around it for 1/4 sec.cor., marked on brass cap, 1/4 S 8 in W.half, S 8 in E.half; from which A pine 2 ins.dia.bears N.46° 20'W. 61 lks.dist. marked 1/4 S 8 B T A pine 6 ins.dia.bears N.65° 45'E. 10 lks.dist. marked 1/4 S 9 B T Leave timber, bears E. and W. Descend into gulch over sandstone surface.
56.00	Sandstone becomes so rough and broken and steep, that it is impossible to chain; therefore, to determine the distance across gulch I set a flag on line on S. side of gulch, then measure a base N.89° 57'E. 20.00 chs.to a point, from which the flag bears S.40° 07'W.; from the flag the E.end of base bears N.40° 07'E.; therefore the dist.is cotan. 40° 10' x base, or 1.185 x 20.00, equals 23.70, which added to 56.00 makes
79.70	To S.side of gulch. I left a flag at sta.56.00 bet.secs 8 and 9 for future use. From this point the old witness corner established by Deputy Gentry Dec.18, 1909, bears E.1.25 chs. I destroy all traces of old witness cor. Enter scattering timber.
80.00	Point for section corner falls on sandstone surface, at

N.89°57'E

23.70

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. exact points for sec.cor.I cut a cross (X) for corner and set a sandstone 24"x 18"x 6 ins., in mound of stone for cor.of secs.8,9,16, and 17, marked with 4 notches on S. and E. edges; from which, descending stone for cor.A pine 8 ins.dia.bears N.25° W. 89 lks.dist.marked

T 43 S R 10 W S 8 B T

A pine 10 ins.dia.bears N.14° 45'E. 118 lks.dist.

marked T 43 S R 10 W S 9 B T

A pine 8 ins.dia.bears S.81° E. 122 lks.dist.

marked T 43 S R 10 W S 16 B T

A pine 10 ins.dia.bears S.32° 15'W. 3.37 chs.dist.

marked T 43 S R 10 W S 17 B T

Cor.stands on spur projecting NE.

Land, mountainous.

Soil, rocky and sandy; 2d and 4th rate.

Timber, yellow pine.

Mountainous land 80.00 chs.

Apr.9, 1910: At this cor.I set off 7° 29' N.on decl.arc; and at 0 h. 02 m.p.m.l.m.t.observe the sun on the meridian; the resulting lat.is 37° 03'N.

N.89° 57'E.on a random line bet.secs.9 and 16,

Descending into gulch, over which it is impossible to chain. To determine the dist.across I set a flag on E. side of gulch, from which the flag set at sta.56.00 bet.secs.8 and 9, or making a base N.0° 03'W. 24.00 bears N.44° 16'W.; therefore the dist.is $\tan.44^\circ 13' \times \text{base}$ or .975 x 24.00 equals 23.35.

23.35 E.side of gulch.

40.00 Point for 1/4 sec.cor.falls on sandstone ledge, impossible to set point.

44.24 Fall 2 lks.S.of the witness cor.for 1/4 sec.cor., set by Deputy Gentry Dec.20, 1909.

80.14 Fall 3 lks.S.of the cor.of secs.9,10,15, and 16 set Dec.15 by Deputy Gentry. Thence I run

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	S. 89° 55' W. on true line bet. secs. 9 and 16; Descending into gulch, through scattering timber.
2.50	Gulch 60 ft. below sec. cor., 20 lks. wide, 10 ft. deep, course SE. Ascend.
7.35	Top of spur, 75 ft. above wash bears NW. and SE. Descend into gulch.
30.00	Wash, 200 ft. below top of spur, 20 lks. wide, 12 ft. deep course SE. Ascend.
36.00	The witness 1/4 sec. cor. set by Deputy Gentry Dec. 20, an iron post 3 ft. long, 1 in. dia., set 26 ins. in the ground, marked on brass cap, W C T 43 S R 10 W 1/4 S 9 in N. half, S 16 in S. half; from which A pine 16 ins. dia. bears N. 2° W. 76 lks. dist. marked W C 1/4 S 9 B T A pine 16 ins. dia. bears S. 52° 30' E. 107 lks. dist. marked W C 1/4 S 16 B T Corner stands at foot of rolling sandstone ledges bear- ing SE. and NW. Ascend; leave timber.
40.07	Point for 1/4 sec. cor. falls on steep sandstone ledge, impossible to set post.
46.00	Top of ridge, 250 ft. above 1/4 sec. cor., bears N. 40° W. and S. 40° E. Descend into gulch.
65.50	Wash, 250 ft. below top of ridge, 30 lks. wide; 10 ft. deep, course S. 75° E. Ascend.
80.14	The cor. of secs. 8, 9, 16, and 17. Corner is 300 ft. above wash. Land, mountainous. Soil rocky; 4th rate. Timber, scattering yellow pine. Mountainous land 80.14 chs.

Apr. 9, 1910.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	<p>Apr. 10, 1910: At 8 h' 02 m.a.m. 1.m.t. I set off $37^{\circ} 03'$ N. on lat. arc; $7^{\circ} 48'$ N. on decl. arc; and determine a meridian with the solar at the cor. of secs. 8, 9, 16, and 17. Thence I run</p> <p>N. $89^{\circ} 54'$ W. on a random line bet. secs. 8 and 17,</p>
24.47	<p>Top of cliffs over which it is impossible to chain. It being impossible to lay off a base line here I set a flag on line, opposite the $1/4$ sec. cor. set Dec. 20 1909 by Deputy Collier, which is 15 lks. N.; then proceed to $1/4$ sec. cor., leaving flag on top of cliffs. There being no suitable place here for base line, I commence chaining at $1/4$ sec. cor., and at</p>
39.88	<p>Fall 10 lks. N. of the cor. of secs. 7, 8, 17, and 18.</p>
55.61	<p>To determine the dist. to the flag on top of cliffs I proceed as follows:</p> <p>I lay off a base line S. $0^{\circ} 06'$ W. 37.25 chs. to a point, from which the flag on cliffs bears N. $56^{\circ} 17'$ E.; therefore the dist. is $\tan. 56^{\circ} 11' \times \text{base}$, or 1.493×37.25 equals 55.61, which added to 24.47 makes</p>
80.08	<p>The cor. of secs. 7, 8, 17, and 18, set by Collier Dec. 20, 1909 Thence I run</p> <p>S. $89^{\circ} 58'$ E. on a true line bet. secs. 8 and 17,</p>
4.40	<p>Over nearly level line; through timber, very rough and broken.</p> <p>Descend to wash bears N. and S.</p>
8.55	<p>Wash, 60 ft. below top, 30 lks. wide, 10 ft. deep, course S. Ascend.</p>
21.00	<p>Top of ascent, 45 ft. above wash, bears N. and S. Descend.</p>
29.00	<p>Wash, 75 ft. below top of ascent, 30 lks. wide, 10 ft. deep, course SW. Ascend.</p>
30.75	<p>Top of spur, 40 ft. above wash, projects 3 chs. SW. Descend.</p>

SUBDIVISION OF T. 33 S., R. 16 W.

Chains.

- 31.85 Wash, 30 ft. below spur, clear water, 4 lks. wide, 3 ins. deep, course SW.
Ascend slightly.
- 37.90 Spring branch to wash 2 lks. wide, 4 ins. deep, course S. 70° W. Ascend.
- 39.88 The 1/4 sec. cor. set by Deputy Collier Dec. 20, 1900, bears N. 15 lks. I destroy it.
- 40.04 Set an iron post 3 ft. long, 1 in. dia., 30 ins. in the ground, for 1/4 sec. cor., marked on brass cap. 1/4 S 8 in N. half, S 17 in S. half; from which
A cedar 12 ins. dia. bears N. 69° 30' E. 30 lks. dist. marked 1/4 S 8 B T
A cedar 15 ins. dia. bears S. 65° W. 1.05 chs. dist. marked 1/4 S 17 B T
- 47.50 Foot of cliffs, 100 ft. above 1/4 sec. cor. bear S. 10° W. for 10 chs., thence S. 60° W. and N. 8 chs. thence N. 70° W. Ascend abruptly.
- 55.60 Top of cliffs, 900 ft. above foot, bears N. and S.
Ascend gradually, through scattering pine.
- 61.00 Top of ascent, 20 ft. above top of cliffs.
Descend gradually, over sandstone surface.
- 80.08 The cor. of secs. 8, 9, 16, and 17.
Land, mountainous,
Soil rocky; 4th rate.
Timber, cedar, pinon pine and yellow pine.
Mountainous land 80.08 chs.
Apr. 10: At this cor. I set off 7° 51' N. on decl. arc; and at 0 h. 02 m. p. m. l. r. t. observe the sun on the meridian; the resulting lat. is 37° 03' N.
-
- S. 0° 03' E. bet. secs. 16 and 17,
Descend over sandstone surface.
- 5.30 Ravine, or spale, drains SE.
Ascend.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	
2.50	Top of ascent, 100 ft. above ravine; bears NW. and SE. Descend.
16.25	Wash, 200 ft. below top of ascent, 20 lks. wide, 10 ft. deep, course SE. Ascend.
25.00	Top of spur, 100 ft. above wash, bears NW. and SE. Desc.
28.00	Base of ledge, 75 ft. below top of spur; ascend gradually through scattering timber.
39.50	Base of ledges bears NW. and SE. Set an iron post 3 ft. long, 1 in. dia., 26 ins. in ground for witness 1/4 sec. cor. 2., marked on brass cap, T/43 S R 10 W. W.C. 1/4 S 17 in W. half, S 16 in E. half. A pine 20 ins. dia. bears N. 75° E. 94 lks. dist. mkd. W. C. 1/4 S 16 B T A pine 24 ins. dia. bears N. 7 1/2° W. 3.17 chs. dist. mkd. W. C. 1/4 S 17 B T Ascend over ledges.
40.00	Point for 1/4 sec. cor. falls on ledges, corner not set.
41.00	Top of ledge, 40 ft. above 1/4 sec. cor. Ascend gradually.
54.55	Top of ascent, 50 ft. above top of ledges, bears NW. and SE. Descend gradually.
55.00	Top of high cliffs, impossible to chain over; line runs along face of cliffs; therefore I offset as follows: West 3.75 chs.; thence S. 0° 03' E. through sec. 17. It being impossible to chain over cliffs I proceed as follows: Set a flag on offset line. It being impossible to lay off base line, I leave a flag and proceed to flag at foot of cliffs on offset line, and from there I lay off a base S. 29° 57' W. 20.00 chs. to a point, from which the flag bears N. 44° 36' E.; therefore the dist. is co- tan. 44° 36' x base, or 1.01 x 20.00, equals 20.20, which added to 55.00, makes

2020
11' 2000

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains.

75.20 To foot of cliffs, 200 ft. below top, bears N. and S. 2° E. Descend.

80.00 Set a sandstone 16 x 16 x 6 ins., 11 ins. in the ground on offset of 3.75 chs., for witness cor. to cor. of secs. 16, 17, 20, and 21, marked with 3 notches on S. and 4 notches on E. edges, W C on NE. face; from which

A cedar 14 ins. dia. bears N. 82° W. 23 lks. dist.
marked W C T 43 S R 10 W S 17 B T

A pine 6 ins. dia. bears S. 5° E. 22 lks. dist.
marked W C T 43 S R 10 W S 21 B T

Land, mountainous.

Soil, rocky; 4th rate.

Timber, pinon pine, cedar and yellow pine.

Mountainous land 80.00 chs.

April 10, 1910.

April 11: Sky overcast impossible to take observation for meridian.

From the witness cor. to cor. of secs. 16, 17, 20, and 21 S. 89° 58' E. on top of cliffs, bet. secs. 16 and 21, I set a flag. It being impossible to lay off a base line here I run, (counting distance from true point for cor. of secs. 16, 17, 20, and 21), N. 89° 58' W. on random line bet. secs. 17 and 20,

40.05 Fall 6 lks. N. of the 1/4 sec. cor. set Dec. 20, 1909 by Deputy Collier.

80.10 Fall 13 lks. N. of the cor. of secs. 17, 18, 19, and 20, set by Deputy Collier.

While at this cor. I make triangulation to top of cliffs bet. secs. 16 and 21, which I report between that line. Thence I run

N. 89° 56' E. on true line bet. secs. 17 and 20,
Along slope of mountain facing S.: through timber; very

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. rough and broken.

5.75 Top of ascent, 30 ft.above sec.cor. Descend.

17.50 Wash, 50 ft. below top of ascent, 20 lks.wide, 4 ft.deep,
course SW. Ascend.

19.50 Top of spur, 20 ft.above wash, bears NE. and SW.
Descend.

25.25 Wash, 40 ft.below top of spur, 30 lks.wide, 4 ft.deep,
course S.60° W. Ascend.

33.75 Top of spur, 200 ft.above wash, bears S.80° W. and E.
Thence ascend along top of spur.

40.05 The old $\frac{1}{4}$ sec.cor.set by Deputy Collier Dec.20, 1909
An iron post 3 ft.long, 1 in.dia., 26 ins.in the ground,
marked $\frac{1}{4}$ S 17 in N.half, S 20 in S.half; from which
A pine 6 ins.dia.bears N.60° W. 31 lks.dist.
marked $\frac{1}{4}$ S 17 B T
A pine 10 ins.dia.bears S.27° E. 34 lks.dist.
marked $\frac{1}{4}$ S 20 B T

41.00 Top of ascent or spur, projects S.80° E.
Descend, along slope, facing N.

62.60 Foot of descent, 50 ft.below top; ascend.

62.75 Top of spur, 100 ft.above foot of descent, bears S.80° W.
and N.80° E. Ascend along slope facing S.

76.35 The witness cor.to cor.of secs.16,17,20, and.21.
Land, mountainous.
Soil, rocky; 4th rate.
Timber, pinon pine and cedars.
Mountainous land 76.35 chs.

S.29° 58'E.on random line bet.secs.16 and 21,
Ascend abruptly over cliffs, impossible to chain over.
To determine the dist.to top I set a flag on line; and
there being no suitable place to lay off a base line,
I proceed to the $\frac{1}{4}$ sec.cor.bet.secs.19 and 20 and a
point 18 lks.N.and $\frac{6}{11}$ lks.W.of the $\frac{1}{4}$ sec.cor.,

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SUBDIVISION OF T. 43 S., R.10 W.

Chains.

making a base line S.0° 02' W. 40.00 chs. From this point the flag on cliffs bears N.66° 40' E.; therefore the distance is $\tan.66^\circ 38' \times \text{base}$, or 2.315×40.00 equals 92.60, minus 80.10 makes

12.50 To top of cliffs.

40.04 Fall 14 lks.S.of the 1/4 sec.cor.set Dec.21, 1909 by Dep.Gentry.

80.08 Fall 26 lks.S.of the cor.of secs.15,16,21, and 22, set Dec.16, 1909 by Deputy Gentry.

Thence I run

S.69° 50' W.on true line bet.secs.16 and 21,

Descend gradually over sandy soil; through scattering timber.

12.00 Foot of descent, 40 ft.below sec.cor., bears N.30° E. Ascend gradually.

40.04 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 16 in N.half, S 21 in S.half; from which

A pine 24 ins.dia.bears N.19° 15' W. 149 lks.dist. marked 1/4 S 16 B T

A pine 24 ins.dia.bears S.41° 10' E. 151 lks.dist. marked 1/4 S 21 B T

50.00 Top of ascent, 40 ft.above 1/4 sec.cor.bears NW. and SE. Descend gradually over rough broken sandstone surface.

67.50 Top of cliffs bears N. and S. Descend abruptly.

80.08 Point for cor.of secs.16,17,20, and 21; corner not set.

83.23 The witness cor.to cor.of secs.16,17,20, and 21.

Land, mountainous.

Soil, sandy and rocky: 2d and 4th rates.

Timber, scattering yellow pine.

Mountainous land 83.23 chs.

Apr.11, 1910: Sky overcast the entire day; solar observations impossible.

April 11, 1910

Ralph Shively
U.S. Deputy Surveyor

Dec.12, 1909: Sky overcast, solar observations impossible.
Note: The line bet.secs.20 and 21 cannot be established on

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. account of impassable mountains. Intercept this line
Knowing that impassable mountains intercept the line be-
tween secs. 21 and 28; therefore, I run
From the cor. of secs. 21, 22, 27, and 28, I run
West bet. secs. 21 and 28, on true line,

Descend mountain, very rough; through timber.

11.25 Wash, 75 ft. below sec. cor., 40 lks. wide, 10 ft. deep,
course SE. Ascend mountain.

24.25 Foot of cliffs bears N. and S.; impossible to get over.
Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for witness cor. to 1/4 sec. cor., marked on
brass cap, W.

T 43 S R 10 W W C

S 21 in N. half, S 28 in S. half; and raise a mound
of stone 2 1/2 ft. base, 2 ft. high N. of cor.

No trees available to mark.

Line west of this point unsurveyable, abandon line here.

Land, mountainous.

Soil, rocky; 4th rate.

Timber pine.

Mountainous land 24.25 chs.

Dec. 19, 1909.

Robert E. R. Collier
U.S. Dep. Surveyor.

Dec. 22, 1909:

From the cor. of secs. 27, 28, 33, and 34 I run

West on true line bet. secs. 28 and 33,

Descend mountain facing S. 60° W., over rough and broken
land; through timber.

14.50 Foot of mountain, 300 ft. below sec. cor., wash 20 lks.
wide, 2 ft. deep, course S. Ascend.

23.00 Top of spur, 100 ft. above wash, bears S. 15 chs.
Descend.

30.00 Foot of spur, 150 ft. below top, bears N. and S.

32.00 Foot of spur, bears N. and S. Ascend.

36.50 Top of spur, 150 ft. above foot, bears S. 8 chs. Descend.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains. ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 28 in N.half, S 33 in S.half; from which

A pine 6 ins.dia.bears N.85° 45'W. 52 lks.dist.
marked 1/4 S 28 B T

A pine 10 ins.dia.bears S.42° E. 7 lks.dist.
marked 1/4 S 33 B T

46.00 Foot of mountain 150 ft.below top of spur, bears N. and S. Descend gradually over broken surface

47.00 Top of wash 20 ft.below foot of mountain bears N. and S. Descend.

48.50 Wash, 30 lks.wide, 3 ft.deep, course S. Ascend.

52.00 Top of wash, 40 ft.above bottom, bears N. and S. Descend gently; sandy soil.

80.00 Set an iron post 3 ft..ong, 2 ins.dia., 24 ins.in the ground, for cor.of secs.28,29,32, and 33, marked on brass cap,

T 43 S S 29 in NW.
R 10 W S 28 in NE.
S 33 in SE., and
S 32 in SW.quadrants; from which

A cedar 6 ins.dia.bears N.75° 20'E. 135 lks.dist.
marked T 43 S R 10 W S 28 B T

A cedar 16 ins.dia.bears N.7° 15'W. 1.51 chs.dist.
marked T 43 S R 10 W S 29 B T

A cedar 8 ins.dia.bears S.53° W. 1.24 chs.dist.
marked T 43 S R 10 W S 32 B T

A cedar 10 ins.dia.bears S.65° 50'E. 1.07 chs.dist.
marked T 43 S R 10 W S 33 B T

Land, mountainous and nearly level.
Soil, rocky and sandy 4th and 2d rates.
Timber, cedar and pinon pine.
Mountainous land 46.00 chs.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	Knowing that the point for cor.of secs.20,31,28, and 29 is inaccessible, I run from cor.of secs.28,29,32, & 33 N.0° 05'W. bet.secs.28 and 29, Over nearly level land.; through timber.
7.85	Wash 15 lks.wide, 11 ft.deep, course S.70° W.
15.75	Wash 25 lks.wide, 4 ft.deep, course SW.
20.00	Foot of mountain bears NW. and SE. Ascend.
40 00	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for 1/4 sec.cor., marked on brass cap, 1/4 S 29 in W.half, S 28 in E.half; from which A cedar 12 ins.dia.bears S.35° 15 'E. 35 lks.dist. marked 1/4 S 28 B T A pine 14 ins.dia.bears N.70° 30'W. 27 lks.dist. marked 1/4 S 29 B T Cor.stands on top of ascent, 60 ft.above foot. Descend.
47.90	Wash, 40 ft.below 1/4 sec.cor., 20 lks.wide, 5 ft.deep, course SW. Ascend.
72.80	Foot of cliffs, impossible to get over, bears S.30° W. and E.6 chs.; thence SE. On large stationary boulder 10 x 8 x 8 ft.above ground cut a cross (X) for witness cor.to cor.of secs.20,21 28, and 29 with 4 grooves on E. and 2 grooves on S. of cross, W C on E.6f cross; and raise a mound of stone 2 1/2 ft.base, 2 ft.high W.of cor. A cedar 10 ins.dia.bears S.29° E. 3.78 chs.dist. marked T 43 S R 10 W S 28 B T
80.00	No other bearing trees within limits. Point for cor.of secs.20,21,28, and 29 falls on impassable cliffs; corner not set. Land mountainous, and nearly level. Soil, sandy and rocky; 2d and 4th rates. Timber, cedar and pinon pine.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains. Mountainous land 52.80 chs.

From the cor. of secs. 28, 29, 32, and 33, I run

S. 0° 03' E. bet. secs. 32 and 33,

Over nearly level land; through timber.

40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for 1/4 sec. cor., marked on brass cap, 1/4 S 32 in W. half, S 33 in E. half; from which

A cedar 14 ins. dia. bears S. 39° W. 3.27 chs. dist.
marked 1/4 S 32 B T

A cedar 10 ins. dia. bears S. 83° 50' E. 4.28 chs. dist.
marked 1/4 S 33 B T

43.50 Deseret Telephone line, bears N. 30° W. and S. 30° E.

58.90 Intersect Utah-Arizona Boundary line 4.54 chs. E. of the 58th mile post on the boundary, which is an iron post 2 ins. dia., 24 ins. above ground, marked and witnessed as described by the surveyor general.

Set an iron post 3 ft long, 2 ins. dia., 24 ins. in the ground, for closing cor. of secs. 32 and 33, marked on brass cap,

UTAH T 43 S R 10 W S 32 S 33 in W. half

C C ARIZONA in S. half; from which

A cedar 24 ins. dia. bears N. 75° 05' W. 3.18 chs. dist.
marked C C T 43 S R 10 W S 32 B T

A cedar 8 ins. dia. bears N. 15° 35' E. 2.53 chs. dist.
marked C C T 43 S R 10 W S 33 B T

Land, nearly level.

Soil, sandy; 2d rate.

Timber, cedar and pinon pine.

Dec. 22, 1909, Sky overcast the entire day solar observations impossible.

Ralph Gentry
U.S. Deputy Surveyor.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	
	Dec. 20: At 7 h. 58 m. a. m. l. m. t. I set off $37^{\circ} 05' N.$ on lat. arc; $23^{\circ} 22' S.$ on decl. arc, and determine a meridian with the solar at the cor. of secs. 5, 6, 31, and 32 on N. bdy. of Tp., heretofore described. Thence I run $S. 0^{\circ} 03' E.$ bet. secs. 5 and 6, Ascending over very rough and broken sandstone surface; through scattering timber.
4.00	Top of ascent, 20 ft. above cor., bears SW. and NE. Desc.
8.80	Wash, 30 ft. below top of ascent, 20 lks. wide, 3 ft. deep, course NE. Ascend.
22.00	Top of ridge, 150 ft. above wash, bears $N. 80^{\circ} E.$ and $S. 80^{\circ} W.$ Descend.
28.35	Wash, 125 ft. below ridge, 40 lks. wide, 10 ft. deep, course $N. 80^{\circ} E.$ Ascend.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on sandstone ledge; impossible to set post.
48.00	Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for witness $\frac{1}{4}$ sec. cor., marked on brass cap, T 43 S R 10 W WC $\frac{1}{4}$ S 6 in W. half, and S 5 in E. half; from which A pine 8 ins. dia. bears $S. 59^{\circ} 35' E.$ 81 lks. dist. marked WC $\frac{1}{4}$ S 5 B T A pine 8 ins. dia. bears $N. 35^{\circ} 30' W.$ 20 lks. dist. marked WC $\frac{1}{4}$ S 6 B T
58.00	Corner stands on S. side of gulch 150 ft. above wash. Top of gulch, 75 ft. above $\frac{1}{4}$ sec. cor., bears E. and W. Ascend gently.
72.14	Wash 1 ch. wide, 50 ft. deep, course SE. Ascend.
75.00	Top of spur, 75 ft. above wash bears NW. and SE. Surface becomes very rough and broken by small buttes.
78.00	NW. foot of butte 1 ch. wide, 50 ft. high, impossible to chain over.
	Set a sandstone 16 x 16 x 6 ins., in mound of stone for

SUBDIVISION T. 43 S., R. 10 W.

Chains	<p>witness cor.to cor.of secs.5,6,7, and 8, marked with 5 notches on S. and E.edges, W C on NE.face; and raise a mound of stone $2\frac{1}{2}$ ft.base, 2 ft.high W.of cor.</p> <p>A pine .7 ins.dia.bears N.24° 30'E. 36 lks.diat.</p> <p>marked T 43 S R 10 W S 5 B T</p> <p>No other bearing trees within limits.</p>
80.00	<p>Point for cor.of secs.5,6,7, and 8; corner not set.</p> <p>Land, mountainous.</p> <p>Soil, rocky; 4th rate.</p> <p>Timber, scattering yellow pine.</p> <p>Mountainous land 80.00 chs.</p>
	<p>From the witness cor.to cor.of secs.5,6,7, and 8 I off-set E.4.00 chs.; thence</p> <p>S.0° 03'E.2.00 chs. to line; thence I run</p> <p>East on random line bet.secs.5 and 8,</p>
40.00	Set temp. $\frac{1}{2}$ sec.cor.
80.08	Intersect N. and S.line 16 lks.N.of the cor.of secs.4,5, 8, and 9.
	<p>Dec.20- At this cor.I set off 23°25' S.on decl.arc; and at 11 h. 58 m.a.m.l.m.t.observe the sun on the meridian; the resulting lat.is 37° 04'N. Thence I run</p> <p>N.89° 53'W.on true line bet.secs.5 and 8,</p> <p>Descending gently along top of gulch facing N.; sandstone surface.</p>
20.25	Wash 50 lks.wide, 15 ft.deep, course NW.
24.75	Descend into gulch.
27.50	Wash 150 ft.below top of ascent, 40 lks.w de, 15 ft. deep, course NW. Ascend.
30.00	Top of ascent, 20 ft.above wash, bears NW. and SE. Descend gradually.
40.04	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{2}$ sec.cor., marked on brass cap, $\frac{1}{2}$ S 5 in

SUBDIVISION OF T. 43 S., R. 10 W.

Chains	N.half, S 8 in S.half; from which A pine 8 ins.dia.bears N.7° E. 59 lks.dist. marked $\frac{1}{4}$ S 5 B T A pine 10 ins.dia.bears S.71° E. 1.15 chs.dist. marked $\frac{1}{4}$ S 8 B T
44.25	Wash 200 ft.below top of gulch, 50 lks.wide, 6 ft.deep, course N.10° E. Ascend.
66.00	Top of ascent, 150 ft.above wash, bears NW. and SE. Descend.
72.00	Wash 75 ft.below top of ascent, 20 lks.wide, 6 ft.deep, course SE.
73.00	Top of ascent, 75 ft.above wash, bears NW. and SE. Descend gradually.
76.08	Foot of butte, impossible to chain over; therefore I offset N.0° 03'W. 2.00 chs.; thence N.89° 53'W. 4.00 chs.to
80.08	The witness corner to cor.of secs.5,6,7, and 8. Land, mountainous. Soil, rocky; 4th rate. Timber, yellow pine. Mountainous land 80.08 chs.
	From witness cor.to cor.of secs.5,6,7, and 8, I offset west 10.00 chs.; thence S.0° 03'E.2.00 chs. to line; thence West on random line bet.secs.6 and 7,
40.00	Set temp. $\frac{1}{4}$ sec.cor.
78.54	Intersect W.bdy.of Tp.3.89 chs.S.of witness cor.to cor. of secs.1,6,7, and 12, heretofore described. Thence I run N.89° 55'E.on true line bet.secs.6 and 7, Descending gradually over very rough broken surface; through scattering timber.

SUBDIVISION T. 43 S. R. 10 W.

Chains.

- 10.00 Surface becomes less broken; enter sandy soil.
- 38.54 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 6 in N. half, S 7 in S. half; from which
 A pine 6 ins. dia. bears N. 23° 30' E. 2.25 chs. dist.,
 marked $\frac{1}{4}$ S 6 B T
- No other bearing trees within limits; raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high N. or cor.
- 48.00 Descend to wash.
- 50.25 Wash, 30 ft. below top of ascent, 20 lks. wide, 6 ft. deep, course N. 30° E. Ascend.
- 52.00 Top of ascent, 25 ft. above bottom; surface becomes broken by small buttes.
- 68.54 Surface becomes so rough and broken by small buttes, impossible to chain over; I offset N. 0° 03' W. 2.00 chs. thence N. 89° 55' E. 10.00 chs. to
- 78.54 The witness cor. to cor. of secs. 5, 6, 7, and 8.
 Land, mountainous.
 Soil, rocky; 4th rate.
 Timber, scattering yellow pine.
 Mountainous land 78.54 chs.
- Dec. 20: At 11:30 a.m. I set out on December 20, 1909, and at 11:30 a.m. I observed the sun on the meridian; but the clouds were too low.
- December 21, 1909, clouds obscure the sun, no observation for meridian taken.

Note: It being impossible to chain from witness cor. for cor. of secs. 5, 6, 7, and 8, the surface being so broken by small buttes and deep gulches, impossible to chain over; and not being able to see past butte by witness cor., I return to sta. at 75.00 chs. bet. secs. 5 and 6, from this point I set a flag on line S. 0° 03' E. bet. secs. 7 and 8 on S. side of buttes. There being no suitable place here to lay off base line, I proceed to flag, and

SUBDIVISION OF T. 48 S., R. 10 W.

Chains from there lay off a base line N. 88° 57' E. 20.00 chs. bet. secs. 5 & 6. to a point, from which the flag at sta. 75 bears N. 38° 18' W.; therefore the dist. is $\cotan. 38^\circ 18'$ x base, or 1.27×20.00 , equals 25.40, which minus 5.00 chs. equals,

20.40 Thence I run

S. 0° 03' E. bet. secs. 7 and 8,

Gradually ascending mountain, over rough broken sand-stone surface.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on small butte; impossible to set post.

41.00 Foot of butte on top of cliffs, impossible to get on; therefore I offset west 50 lks.; thence

S. 0° 03' E. on offset line 50 lks. to

41.50 Top of cliffs bearing N. and W., impossible to chain over.

To determine the distance I set a flag on offset line at foot of cliffs. It being impossible to lay off a base line here, I proceed to flag at bottom, and from there lay off a base line S. 88° 57' W. 16.00 chs. to a point, from which the flag on top bears N. 46° 03'; therefore the distance is $\cotan. 46^\circ 06'$ x base, or $.962 \times 16.00$ equals 15.39, which added to 41.50 equals 56.89, to a point from which I offset east 50 lks., thence N. 0° 03' W. 2.39 chs. to

54.50 Foot of cliffs, 200 ft. below top, bears S. 70° E. and 70° W.

Set an iron post 3 ft. long, 1 in. dia., 26 lbs. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., marked on brass cap,

T. 48 S. R. 10 W. EC

3 7 in E. half, S 2 in E. half; from which

A pine 12 in. dia. bears S. 12° E. 1.22 chs. dist.

marked W. C. S. S. R. T

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains. No other bearing trees within limits; raise a mound of stone $2\frac{1}{2}$ ft. base, 2 ft. high W. of cor. Thence descend mountain; very rough.

65.50 Wash, 125 ft. below foot of cliffs, 40 lks. wide, 10 ft. deep, course SW. Ascend.

69.00 Top of asc., 60 ft. above wash, bears NE and SW. Descend.

80.00 Set a sandstone 18 x 14 x 12 ins., 12 ins. in the ground for cor. of secs. 7, 8, 17, and 18, marked with 4 notches on S. and 5 notches on E. edges; from which

A pine 8 ins. dia. bears N. 51° W. 1.01 chs. dist.
marked T 43 S R 10 W S 7 B T

A pine 8 ins. dia. bears N. 77° 35' E. 47 lks. dist.
marked T 43 S R 10 W S 8 B T

A pine 14 ins. dia. bears S. 10° 50' E. 83 lks. dist.
marked T 43 S R 10 W S 17 B T

A pine 6 ins. dia. bears S. 39° 50' W. 1.17 chs. dist.
marked T 43 S R 10 W S 18 B T

Canaan Farm House bears S. 21° 52' W.

Canaan Barn bears S. 22° 29' W.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, yellow pine and cedars.

Mountainous land 80.00 chs. Dec. 21, 1909.

Ralph Gentry
U.S. Deputy Surveyor.

Dec. 21, 1909: Sky overcast; observation on sun impossible.

S. 89° 55' W. on random line bet. secs. 7 and 18,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.50 Intersect W. ldy. of Tp. $2\frac{1}{2}$ lks. N. of the cor. of secs. 7, 12, 13 and 18, heretofore described. Thence I run

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	N.89° 54'E. on true line bet.secs.7 and 18, Ascending mountain; through timber; very rough.
34.00	Top of spur, 250 ft.above sec.cor., bears N. and S.Desc.
38.50	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 7 in N.half, S 18 in S.half; from which A pine 14 ins.dia.bears S.3° 35'W. 58 lks.dist. marked $\frac{1}{4}$ S 18 B T A cedar 12 ins.dia.bears N.79° W.61 lks.dist. marked $\frac{1}{4}$ S 7 B T Canaan Farm House bears S.28° 50'E. Canaan Barn bears S. 29° 55'E.
50.50	Foot of spur, 150 ft.below $\frac{1}{4}$ sec.cor.bears NE. and SW. Thence on level line;over broken surface.
59.00	Top of wash bears N.20° E. and S.20° W. Descend.
61.00	Wash 60 ft.below top, 40 lks.wide, 8 ft.deep, course S. 15° W. Ascend.
74.50	Top of ascent, bearing N. and SW.
78.50	The cor.of secs.7,8,17, and 18. Land, mountainous, level and broken. Soil, rocky; 4th rate. Timber, cedars and pinon pine. Mountainous land 50.50 chs.
	S.0° 03'E.bet.secs.17 and 18, Descending through timber.
13.00	Foot of mountain, 100 ft.below sec.cor., bears NW. and SE. Descend gradually.
15.00	Leave timber, bears SE. and NW.
20.75	Wash, 25 lks.wide, 8 ft.deep, clear water, 15 lks.wide, $\frac{1}{2}$ in.deep, course SW.
22.30	Fence bears NE. and SW. Enter field.
30.00	Foot of mountain bears E. and W.; leave field. Enter Enter timber bears NE. and SW. Ascend.

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SUBDIVISION OF T. 43 S., R. 10 W.

Chains
40.00

Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. marked on brass cap, $\frac{1}{4}$ S 18 in W. half, S 17 in E. half; from which

A pine 10 ins. dia. bears N. $39^{\circ} 10' E.$ 65 lks. dist. marked $\frac{1}{4}$ S 17 B T

A pine 8 ins. dia. bears N. $39^{\circ} 40' W.$ 20 lks. dist. marked $\frac{1}{4}$ S 18 B T

Corner stands on side of mountain facing N., 75 ft. above foot.

53.25

Top of spur, 175 ft. above $\frac{1}{4}$ sec. cor. bears S. $80^{\circ} W.$ Descend.

70.00

West end of spur, 150 ft. below top. Descend.

80.00

Set a sandstone 24 x 12 x 12 ins., 18 ins. in the ground for cor. of secs. 17, 18, 19, and 20, marked with 3 notches on S. and 5 notches on E. edges; from which

A pine 10 ins. dia. bears N. $63^{\circ} 45' E.$ 101 lks. dist. marked T 43 S R 10 W S 17 B T

A cedar 6 ins. dia. bears N. $22^{\circ} 30' W.$ 57 lks. dist. marked T 43 S R 10 W S 18 B T

A pine 10 ins. dia. bears S. $21^{\circ} 45' W.$ 21 lks. dist. marked T 43 S R 10 W S 19 B T

A pine 5 ins. dia. bears S. $50^{\circ} E.$ 25 lks. dist. marked T 43 S R 10 W S 20 B T

Land, level and mountainous.

Soil, sandy loam and rocky; 1st and 4th rate.

Timber, cedar and pinon pine.

Mountainous land 63.00 chs. Dec. 21, 1909.
Sky overcast, no obs. for lat. this day.

Dec. 22: Sky overcast, solar observation impossible.

S. $89^{\circ} 54' W.$ on random line bet. secs. 18 and 19,

40.00

Set temp. $\frac{1}{4}$ sec. cor.

78.60

Intersect W. bdy. of Tp. 5 lks. S. of the cor. of secs. 13, 18, 19, and 24, heretofore described. Thence I run

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.	N 89° 56' E. on true line bet. secs. 18 and 19, Over rolling land; through a grassy undergrowth.
8.85	Road bears N. 30° E. and S. 30° W.
25.74	Road bears N. 15° E. and S. 15° W.
34.00	Enter timber, bears N. and S.
38.60	Set an iron post 3 ft. long, 1 in. dia., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked on ground esp $\frac{1}{4}$ S 18 in N. half, S 18 in S. half; from which A pine 10 ins. dia. bears N. 52° 30' E. 68 lbs. dist. marked $\frac{1}{4}$ S 18 S T A cedar 14 ins. dia. bears S. 74° W. 72 lbs. dist. marked $\frac{1}{4}$ S 18 S T Thence over broken surface.
40.75	Wash, 20 lbs. wide, 3 ft. deep, course SW.
60.45	Deseret Telephone line bears N 30° W.
66.60	Foot of mountain bears N. and S. Ascend.
70.35	Top of spur, 50 ft. above foot bears S. 4 chs. Descend.
73.50	Foot of descent, 20 ft. below spur. Ascend.
78.60	The cor. of secs. 17, 18, 19, and 20. Land, rolling and mountainous. Soil, sandy and rocky; 2d, 3d, and 4th rates. Timber, cedar and pinon pine. Mountainous land 40.00 chs.
	S. 0° 03' E. bet. secs. 19 and 20, Descending through timber, over broken surface.
8.50	Foot of spur, 50 ft. below sec. cor., bears E. and W. Descend gradually.
11.80	Wash, 35 ft. below foot of spur, 30 lbs. wide, 4 ft. deep, course S. 75° W. Ascend.
16.50	Top of wash, bears E. and W. Thence over nearly level line; over broken and uneven surface.
34.00	Foot of mountain about 12 chs. E., bearing S. and NE.

SUBDIVISION OF T. 43 S.. R. 10 W.

Chains.

- 36.45 Wash, 35 lks.wide, 9 ft.deep, course S.75° W.
- 40.00 Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked on brass cap $\frac{1}{4}$ S 19 in W.half, S 20 in E.half; from which
- A cedar 7 ins.dia.bears S.79° 15'W. 91 lks.dist.
marked $\frac{1}{4}$ S 19 B T
- A pine 8 ins.dia.bears S.84° 50'E. 62 lks.dist.
marked $\frac{1}{4}$ S 20 B T
- 53.00 Wash, 35 lks.wide, 7 ft.deep, course S.60° W.
- 62.90 Telephone line bears N.20° W. and S.20° E.
- 67.00 Wash, 20 lks.wide, 7 ft.deep, course S.60° W.
- 80.00 Set an iron post 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.19,20,29, and 30, marked on brass cap,
- T 43 S S 19 in NW.
R 10 W S 20 in NE.
S 29 in SE., and
S 30 in SW.quadrants; from which
- A cedar 12 ins.dia.bears N.32° 40'W. 47 lks.dist.
marked T 43 S R 10 W S 19 B T
- A pine 12 ins.dia. bears N.31° 45'E. 2.24 chs.dist.
marked T 43 S R 10 W S 20 B T
- A pine 12 ins.dia.bears S.38° 50'E. 104 lks.dist.
marked T 43 S R 10 W S 29 B T
- A pine 7 ins.dia.bears S.19° 45'W. 26 lks.dist.
marked T 43 S R 10 W S 30 B T
- Land, mountainous and broken.
- Soil, sandy and rocky; 3d and 4th rates.
- Timber, cedar and pinon pine.
- Mountainous land 16.50 chs.

Knowing that I will intersect impassable cliffs on this line.I run

East on true line bet.secs.20 and 29,

SUBDIVISION T. 43 S., R. 10 W.

Chains. Descending gradually through timber.

1.60 Wash, 10 ft. below cor., 50 lks. wide, 2 ft. deep, course S. 20° W. Ascend very rough mountain.

4.84 Telephone line bears S. 20° E. and N. 20° W.

6.00 Wash, 30 lks. wide, 4 ft. deep, course S. 65° W. Ascend.

16.85 Foot of cliffs, impassable, 100 ft. above wash, bear N. & S. At this point I mark a cross (X) with W P on face of ledge, $\frac{1}{4}$ S 20 on N. and S 20 on S. of cross, for witness point for $\frac{1}{4}$ sec. cor.; and raise a mound of stone 5 ft. base, 4 ft. high 6 ft. N. of cor.

A pine 14 ins. dia., bears S. 70° W. 2.02 chs. dist.

marked $\frac{1}{4}$ S 20 B T

No other bearing trees within limits.

Land mountainous.

Soil, rocky; 4th rate.

Timber, cedar and pinon pine.

Mountainous land 16.85 chs.

S. 89° 56' W. on random line bet. secs. 19 and 30,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

78.65 Intersect W. bdy. of Tp. 16 lks. S. of the cor. of secs. 19, 24, 25, and 30, hertofore described. Thence I run

S. 89° 57' E. on true line bet. secs. 19 and 30,

Ascending gently; through timber.

4.65 Top of ascent, 20 ft. above cor., bears NE. and SW. Thence over nearly level land.

31.15 Descend.

34.65 Foot of descent, bears NE. and SW.

Thence over rolling land.

38.65 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 19 in N. half; S 30 in S. half; from which

A cedar 12 ins. dia. bears N. 24° 15' W. 2.64 chs. dist.

marked $\frac{1}{4}$ S 19 B T

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SUBDIVISION OF T. 45 S., R. 10 W.

Chains. A cedar 12 ins. dia. bears S. 76° E. 2.60 chs. dist.
marked $\frac{1}{4}$ S 30 B T

44.00 Wash, 40 lks. wide, 4 ft. deep, course S. 20° E.

50.00 Wash, 15 lks. wide, 3 ft. deep, course SW.
Leave timber, bears N. 20° E. and S. 20° W.

56.85 Road bears N. and S.

73.15 Foot of low hill; ascend through timber bears N. and S.

75.00 Top of hill 50 ft. above foot bears N. and S. Descend.

78.65 The cor. of secs. 19, 20, 29, and 30.
Land, rolling and mountainous.
Soil, sandy and rocky; 2d and 3d rate.
Timber, cedar and pinon pine.
Mountainous land 9.00 chs.

Dec. 22, 1909.

Dec. 23: At 7 h. 59 m. a. m. l. n. t. I set off 37° 02' N. on lat.
arc; 23° 23' S. on decl. arc; and determine a meridian
with the solar at the cor. of secs. 19, 20, 29, and 30.
Thence I run

S. 0° 03' E. bet. secs. 29 and 30,

Descending slightly along N. foot of hill; through timber.

10.00 Leave foot of hill; enter rolling land.

11.75 Wash, 2.50 chs. wide, 3 ft. deep, course S. 60° W.

20.00 Low hill 40 ft. high, 4 chs. wide, bearing S. 20° E. and
N. 20° W. 6 chs. W. of line.40.00 Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., marked on brass cap $\frac{1}{4}$ S 30
in W. half, S 29 in E. half; from which

A pine 12 ins. dia. bears N. 55° E. 97 lks. dist.

marked $\frac{1}{4}$ S 29 B T

A cedar 12 ins. dia. bears S. 69° 50' W. 32 lks. dist.

marked $\frac{1}{4}$ S 30 B T

44.80 Wash, 15 lks. wide, 3 ft. deep, course NW.

46.00 Leave timber, bears E. and W.; enter sagebrush, bears

SUBDIVISION T. 43 S. R. 10 W.

Chains.	E. and W.
62.20	Road bears N.30° W. and S.20° E.
60.00	Set an iron post 3 ft.long, 2 ins.dia., 24 ins.in the ground, for cor.of secs.29,30,31, and 32, marked on brass cap, T 43 S S 30 in NW. R 10 W S 29 in NE. S 32 in SW., and S 31 in SW.quadrants; dig pits 18 x 18 x 12 ins. in each sec.5½ ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor. Land, rolling. Soil, sandy and gravelly; 2d and 3d rates. Timber, cedar and pinon pine. Undergrowth sagebrush.
40:00	East on a random line bet.secs.29 and 32, Set temp.½ sec.cor.
60.14	Intersect N. and S.line 7 lks.S.of the cor.of secs.28, 29,32, and 33. Thence I run S.80° 57'W.on true line bet.secs.29 and 32, Over rolling land; through scattering timber.
14.00	Leave timber,bears N. and S.;enter sagebrush bears N.& S.
10.10	Wash,20 lks.wide, 3 ft.deep, course SW.
31.37	Telephone line bears S.30° E. and N.30° W.
40.07	Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground,for ¼ sec.cor., marked on brass cap ¼ S 29 in N.half, S 32 in S.half;from which A lone cedar 10 ins.dia.bears N.69°40'W.292 lks. dist., marked ¼ S 29 B F Dig pits 18 x 18 x 12 ins.E.and W.of post 3 ft.dist.;and raise a mound of earth 4 ft.base,2 ft.high N.of cor.
73.00	Road bears N.35° W. and S.35° E.
75.20	Wash 15 lks.wide, 3 ft.deep, course SW.

SUBDIVISION OF T. 43 S., R. 10 W.

Chains

80.14

Corners

The cor. of secs. 29, 30, 31, and 32.

Land; rolling. Soil, sandy, 2d rate.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

Dec. 23: At this cor. I set off $23^{\circ} 26' N.$ on decl. arc; andat 11^h 59^m a.m. observe the sun on the meridian;the resulting lat. is $37^{\circ} 01' N.$ $N. 89^{\circ} 57' W.$ on random line bet. secs. 30 and 31,

40.00

Set temp. $1/4$ sec. cor.

78.82

Intersect W. bdy. of Tp. 3 lks. S. of the cor. of secs. 25, 30
31, and 36, heretofore described.

Thence I run

 $S. 89^{\circ} 56' E.$ on true line bet. secs. 30 and 31,

Over rolling land; through scattering sagebrush.

8.20

Road bears NW. and SE.

Wash 15 lks. wide, 4 ft. deep, course SW.

32.55

Wash, 15 lks. wide, 8 ft. deep, course SW.

38.82

Set an iron post 3 ft. long, 1 in. dia., 26 ins. in the
ground, for $1/4$ sec. cor., marked on brass cap, $1/4$ S
30 in N. half, S 31 in S. half; dig pits 12 x 12 x 12
ins. E. and W. of post 3 ft. dist.; and raise a mound of
earth 4 ft. base, 2 ft. high W. of cor.

78.82

The cor. of secs. 29, 30, 31, and 32.

Land, rolling.

Soil, sandy; 2d rate.

No timber.

Undergrowth sagebrush.

 $S. 0^{\circ} 03' E.$ bet. secs. 31 and 32,

Over rolling land; through sagebrush undergrowth.

1.37

Wash, 8 lks. wide, 15 ft. deep, course SW.

39.85

Road bears $S. 55^{\circ} E.$ and $N. 55^{\circ} W.$

SUBDIVISION OF T. 43 S., R. 10 W.

Chains.
40.00

Set an iron post 3 ft.long, 1 in.dia., 26 ins.in the ground, for $1/4$ sec.cor., marked on brass cap, $1/4$ S 31 in W.half, S 32 in E.half; dig pits 18 x 18 x 12 ins.N. and S.of post 3 ft.dist.; and raise a mound of earth 4 ft.base, 2 ft.high W.of cor.

58.83 Intersect Utah-Arizona Bdy.line 4.43 chs.E.of the 57th mile post , which is a post 2 ins.dia., 2 ft.above ground, marked and witnessed as described by the surveyor general.

Set an iron post 3 ft.long, 2 ins.dia., 24 ins.in the ground, for closing cor.of secs.31 and 32, marked on brass cap,

UTAH T 43 S R 10 W S 31 S 32 in N.half

C C ARIZONA in S.half,

Land, rolling,

Soil, sandy; 2d rate.

No timber.

Undergrowth, sagebrush.

Dec.23, 1909.

Robert E. L. Collins

U.S.Deputy Surveyor.

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GENERAL DESCRIPTION, T. 43 S., R. 10 W.

This township contains two varieties of land, rough, mountainous, and open valley; and the soil ranges from sandy loam to rocky and sandstone surface. The soil through secs. 18, 19, 29, 30, 31, 32, and 33, is a sandy loam and in the open valley, and can be classed as second rate. The soil of the remaining portion of the township being mostly a rough sandstone mountain, can nearly all be classed as 4th rate.

Through the open valley there is a growth of bunch grass, which affords good grazing for cattle.

Pinon and pine and cedars are found through the open valley; and on the mountain is a scattering growth of large yellow pine, but being so inaccessible, is of little value.

Water is found in two places in the township: At the Canaan Ranch in sec. 18, consisting of springs and a small stream; all used on the ranch; and a small stream in Short Creek which drains through the southeastern corner of this township.

We found no trace of oil nor mineral in the township.

The Canaan Ranch in sec. 18 is owned by the St. George Cattle Co. The improvements consist of house and barn valued at \$750.00 and fences valued at 500.00.

There is an old corral in sec. 35, owner unknown.

Robert E. R. Callie -
Ralph Gentry.
U.S. Deputy Surveyors.

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RETRACEMENT OF UTAH-ARIZONA BOUNDARY LINE.

Chains.	The closing errors of secs.33,35, and 36, T. 43 S., R. 10 W. being out of limit, I retrace the Utah-Arizona Boundary line as follows:
	Survey commenced Dec.20, 1909, and executed with the instrument described in book "A" of this survey.
	At 7 h. 58 m.a.m.l.m.t.I set off $37^{\circ} 0' N.$ on lat.arc; $23^{\circ} 22' S.$ on decl.arc; and determine a meridian with the solar at the 58th mile post on the Utah-Arizona Bdy. line, which is an iron post 2 ins.dia., extending 2 ft. above ground, marked and witnessed as described by the surveyor general. Thence I run
80.54	East, retracing along the boundary line; and at Fall 1 lk.S.of the 58th mile corner, which is a line-stone 12 x 12 x 10 ins.above ground, marked and witnessed as described by the surveyor general.
	The course of this line is therefore East.
95.25	<p>Thence I run</p> <p>East along the boundary; and at</p> <p>Intersect the 60.19th mile cor., which is a sandstone 20 x 10 x 6 ins.above ground, firmly set and marked and witnessed as described by the surveyor general.</p> <p>The course of this line is therefore East and the distance 95.25 chs.</p>
80.50	<p>Thence I run</p> <p>East along the boundary; and at</p> <p>Intersect the 61st mile corner, which is a sandstone 12 x 12 x 8 ins.above ground, firmly set and marked</p>

RETRACEMENT OF UTAH-ARIZONA BOUNDARY LINE.

Chains. and witnessed as described by the surveyor general.
The course of this line is therefore East and the distance 80.50 chs.
Dec. 20: At this cor. I set off $23^{\circ} 25'$ S. on decl. arc; and at 11 h. 58 m. a.m. l.m.t. observe the sun on the meridian; the resulting lat. is $37^{\circ} 00'$ N.

80.53 Thence I run
East along the boundary, and at
Intersect the 62d mile corner, which is a sandstone 12
x 18 x 6 ins. above ground, firmly set and marked and
witnessed as described by the surveyor general.
The course of this line is therefore east, and the distance 80.53 chs.
December 20, 1909.

Robert E. L. Collins

U.S. Deputy Surveyor

Note:

There being no notary public, or other officer authorized to administer oaths within a reasonable distance, at the beginning or ending of the surveys embraced in this contract; therefore, in order to save time and expense, we administer the preliminary and final oaths of our assistants ourselves.

U.S. Deputy Surveyors.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Robert E.L. Collier
 _____, United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of retracement Utah-Arizona
Boundary line, through Township 43 S., R. 10 W. of the S.L.B. & M., Utah
 showing the respective capacities in which they acted:

Norman Cooper _____, Chainman.
Alfred Johansen _____, Chainman.
Ozro Demill _____, Moundman.
 _____, Moundman.
Ozro Demill _____, Arman.
 _____, Arman.
Robert T. Collier _____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Robert E.L. Collier
 _____, United States Deputy Surveyor, in retracing surveying all
 those parts or portions of the Utah-Arizona Boundary line through Township 43
South, Range 10 West

_____ of the Salt Lake
Base and _____ meridian, _____ State _____ of _____ Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

Norman Cooper _____, Chainman.
Alfred Johansen _____, Chainman.
Ozro Demill _____, Moundman.
 _____, Moundman.
Ozro Demill _____, Arman.
 _____, Arman.
Robert T. Collier _____, Flagman.

Subscribed and sworn to before me this 23d
 day of December, 1909

Robert E. L. Collier



U.S. Dep. Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Robert E.L. Collier and Ralph Gentry, United States Deputy Surveyors to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision of Rs. 41 and 42 S., Rs. 11 and 12 W., and Tp. 43 S., Rs. 10, 11 and 12 W. of the S.L.B. & M., Utah. knowing the respective capacities in which they acted:

Frank Cooper	Norman Cooper	Chainman.
Carl Cooper	Alfred Johansen	Chainman.
Jesse Jepson	Ozra Demill	Moundman.
		Moundman.
Jesse Jepson	Ozra Demill	Arman.
		Arman.
Robert T. Collier	Wm W. Flanigan	Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Robert E.L. Collier and Ralph Gentry, United States Deputy Surveyors in surveying all those parts or portions of the the Subdivisional lines of Townships 41 and 42 S. Ranges 11 and 12 W. and Township 43 South, Ranges 10, 11, and 12 W.

of the Salt Lake Base and _____ meridian, State _____ of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for U t a h.

<u>Frank Cooper</u>	<u>Norman Cooper</u>	Chainman.
<u>Carl Cooper</u>	<u>Alfred Johansen</u>	Chainman.
	<u>Jesse Jepson</u>	Moundman.
	<u>Ozra Demill</u>	Moundman.
	<u>Jesse Jepson</u>	Arman.
	<u>Ozra Demill</u>	Arman.
<u>Wm W. Flanigan</u>	<u>Robert T. Collier</u>	Flagman.

Subscribed and sworn to before me this 23d day of December, 1909.

Robert E.L. Collier

U.S. Deputy Surveyor.



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

We, Robert E. L. Collier and Ralph Gentry, United States Deputy Surveyors, solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of 20 day of March, 1909, ^{we} have well, faithfully, and truly, in ^{our} proper persons and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision of Townships 42, and 43 S., Rs. 11 and 12 W., and Township 43 South, Range 10 West

Base and of the Salt Lake meridian, in the State of Utah, which are represented in in books E. I. L. O. S. & U. foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

Robert E. L. Collier
and

Subscribed by said Ralph Gentry, and sworn to before me
this 21st day of February, 1910.



Thomas Hull
U. S. Surveyor-General

APPROVAL.

for Utah.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 10, 1910.

The foregoing field notes of the survey of the Subdivisional lines of Township No. 42 South, Range No. 10 West of the Salt Lake Base and Meridian, Utah,

executed by Robert E. L. Collier and Ralph Gentry
under his contract No. 310, dated March 20, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Ralph Gentry

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ^{corrective} survey of Utah-Arizona

Boundary line from 54th to 55th mile cors.

showing the respective capacities in which they acted:

Wm. W. Flanigan....., Chairman.

Joseph Maloney....., Chairman.

Wm. W. Flanigan....., Moundman.

....., Moundman.

Henry Cornelius....., Axman.

....., Axman.

Henry Cornelius....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Ralph Gentry

....., United States Deputy Surveyor, in surveying all

those parts or portions of the Utah-Arizona Boundary line from 54th to 55th

mile cors.

....., which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said ^{corrective} survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for Utah.

Wm. W. Flanigan....., Chairman.

Joseph Maloney....., Chairman.

Wm. W. Flanigan....., Moundman.

....., Moundman.

Henry Cornelius....., Axman.

....., Axman.

Henry Cornelius....., Flagman.

Subscribed and sworn to before me this 15th

day of April, 1910, 190X

Ralph Gentry

U. S. Dep. Surveyor.



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Ralph Gentry, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Thomas Hall United States Surveyor General for Utah, bearing date of the 20th day of March, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Utah-Arizona Boundary line from 54th to 55th mile post

_____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah and in the specific manner described in the field notes, and that the foregoing are the original field notes ^{corrective} of such survey.

Ralph Gentry
United States Deputy Surveyor

Subscribed by said Ralph Gentry, and sworn to before me
this 4th day of May, 1910 190X

SEAL

Thomas Hall
U.S. Surveyor-General
for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 10, 1911

The foregoing field notes of the ^{corrective} survey of the Utah-Arizona Boundary line from the 54th to 55th mile posts

executed by Robert E.L. Collier and Ralph Gentry
under ^{their} contract No. 310, dated March 20, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the ^{corrective} surveys they describe, are hereby approved.

Thomas Hall
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Ralph Gentry

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of part of the Sub-division of T. 43 S., R. 10 W., and the corrective surveys in the subdivisions of Tps. 41 and 42 S., R. 11 W.S.L.B. & M., Utah. showing the respective capacities in which they acted:

Wm. W. Flanigan..... Chairman.

Joseph Maloney..... Chairman.

Wm. W. Flanigan..... Moundman.

..... Moundman.

Henry Cornelius..... Arman.

..... Arman.

Henry Cornelius..... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Ralph Gentry

....., United States Deputy Surveyor, in surveying all those parts or portions of the subdivision of Township 43 S., R. 10 W., and the corrective surveys in subdivisions of Tps. 41 and 42 S., R. 11 W.

..... of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for U. t. a. h.

Wm. W. Flanigan..... Chairman.

Joseph Maloney..... Chairman.

Wm. W. Flanigan..... Moundman.

..... Moundman.

Henry Cornelius..... Arman.

..... Arman.

Henry Cornelius..... Flagman.

Subscribed and sworn to before me this 15thday of April, 1910. X190X }

Ralph Gentry
U.S. Deputy Surveyor.

[illegible][illegible]

Robert Hunter
Robert Hunter

100

Theresa Hall

...and the

100

presented by Robert H. K. Sallinger and Ralph Gentry
under Contract No. S10, dated May 20, 1966. The data have been
critically examined, and the necessary corrections and explanations made, and the
surveys they describe, are hereby approved.

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Pratt, George & Newman, George

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W. L. B. C. L. G.

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BOOK A-362

W. L. B.

FIELD NOTES

OF THE SURVEY OF THE

SOUTH BOUNDARY

of

Township No. 19 South, Range No. 7 East,

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Clarence S. Jarvis, United States Deputy Surveyor,

Under his Contract No. 315, dated November 1, 1909, 18x

Survey commenced May 26, 1910, 19x

Survey completed May 27, 1910, 19x

High
1-79-90

BOOK A-362

NAMES AND DUTIES OF ASSISTANTS.

Quinby Stewart

Chairman

Karl Keeler

Chairman

Verne Nelson

Chairman

James Ollerton

Moundman

Morrille George

Moundman

Milton Fletcher

Axman

Earl Spafford

Axman

Raymond Nelson

Flagman

BOOK A-362

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Quimby Stewart, Karl Keeler, and Verne Nelson

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of frac. S. ldy. T. 19 S. R. 7 E.; E. S. N. and N. ldy. T. 19 S. R. 6 E.; S. N. and frac. N. ldy. T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah

Quimby Stewart, Chainman.

Karl Keeler, Chainman.

Verne Nelson Chainman.

Subscribed and sworn to before me this 24

day of May, 1910



Lewis A. Harmon

Notary Public.

WE, James Olerton and Morrill George

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of frac. S. ldy. T. 19 S. R. 7 E.; E. S. N. and N. ldy. T. 19 S. R. 6 E.; S. N. and frac. N. ldy. T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah

James Olerton, Moundman.

Morrill George, Moundman.

Subscribed and sworn to before me this 24

day of May, 1910



Lewis A. Harmon

Notary Public.

WE, Milton Fletcher and Earl Spafford

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of frac. S. ldy. T. 19 S. R. 7 E.; E. S. N. and N. ldy. T. 19 S. R. 6 E.; S. N. and frac. N. ldy. T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah

Milton Fletcher, Axman.

Earl Spafford, Axman.

Subscribed and sworn to before me this 24

day of May, 1910



Lewis A. Harmon

Notary Public.

I, Raymond Nelson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of frac. S. ldy. T. 19 S. R. 7 E.; E. S. N. and N. ldy. T. 19 S. R. 6 E.; S. N. and frac. N. ldy. T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah

Raymond Nelson, Flagman.

Subscribed and sworn to before me this 24

day of May, 1910



Lewis A. Harmon

Notary Public.

My commission expires Aug. 7, 1911

South Bdy.T.19 S.,R.7 E.

Survey commenced May 26, 1910, and executed with a Bausch Lomb and Saegmuller transit No. 8375, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to thirty seconds of arc; while one minute is the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 27, 1910.

I examine the adjustments of the transit and correct the level and collimation errors, then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation, I proceed as follows: At the cor. of secs. 4, 5, 32, and 33, on S. bdy. T. 19 S., R. 7 E., latitude $39^{\circ}06'55''$ N., longitude $111^{\circ}11'25''$ W., I set off $39^{\circ}07'$ N., on the lat. arc; $21^{\circ}07'$ N., on the decl. arc; and at 3 h 57 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5.00 chs. N. of the cor.

May 26, 1910.

May 27, 1910: At 3 h 11 m a.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor. At 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}30.6'$ to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.36 ins. east of the meridian determined by the solar.

South bdy.T.19 S.,R.7 E.-Continued..

Chains

At 8 h 3 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat.arc; $21^{\circ}14'N.$, on the decl.arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs.N. of the cor.; this mark falls 0.4 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ}18'$ west and $0^{\circ}21'$ east of the meridian established by Polaris observation; therefore I concluded that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m., l.m.t., is $N.16^{\circ}15'W.$, the angle thus determined gives the mag. decl. $16^{\circ}15'E.$

The cor. of secs. 4, 5, 32, and 33, on S. bdy. T. 19 S., R. 7 E., is sandstone 5x10x8 ins., above ground, firmly set, and mkd. and witnessed as described by the Surveyor General. This cor. is partly decayed and in order to better perpetuate it I destroy the old cor.; and reestablish it at the same point as follows:

Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, mkd. on brass cap

T 19 S S 32 in NW.

R 7 E S 33 in NE.

R 7 E S 4 in SE.; and

T 20 S S 5 in SW. quadrants; from which

A cedar, 6 ins. dia., bears $N.55^{\circ}E.$, 104 lks.

dist. mkd. T 19 S., R. 7 E S 33 B T.

A pinon pine, 8 ins. in dia., bears $S.43^{\circ}16'E.$, 69

lks. dist. mkd. T 20 S R 7 E S 4 B T.

A cedar, 8 ins. dia., bears $S.65^{\circ}55'W.$, 135 lks.

dist. mkd. T 20 S R 7 E S 5 B T.

A pinon pine, 7 ins. dia., bears $N.9^{\circ}04'W.$, 90 lks.

South bdy. T.19 S., R.7 E. -Continued.

- Chains dist., mkd. T.19 S., R.7 E. S 32' B T.
- Thence I run
- West, on true line bet. sec. 5 and 32.
- Over rolling hills; through scattering cedar and pinon pine timber and scattering sage brush.
- Asc.
- 9.50 Top of steep ascent at east edge of spur, bears N.30°W. and S.30°E.
- Asc. more gradually.
- 18.00 Top of spur, 150 ft. above cor., bears N.30°W. and S.30°E.
- Desc.
- 39.00 Bottom of hollow, 150 ft. below spur, course S.2.00 chs. thence S.30°E.
- Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 32' in N half and S 5' in S half; from which
- A pinon pine, 5 ins. dia., bears N.47°E., 27 lks. dist., mkd. $\frac{1}{2}$ S 32' B T.
- A cedar, 12 ins. dia., bears S.19°E., 15 lks. dist., mkd. $\frac{1}{2}$ S 5' B T.
- 60.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of sec. 5, 6, 31, and 32, mkd. on brass cap
- T 19 S S 31' in NW.
- R 7 E S 32' in NE.
- R 7 E S 5' in SE; and
- T 20 S S 6' in SW quadrants; from which
- A pinon pine, 6 ins. dia., bears N.52°50'E., 113 lks. dist., mkd. T 19 S R 7 E S 32' B T.
- A cedar, 8 ins. dia., bears S.56°18'E., 74 lks. dist., mkd. T 20 S R 7 E S 5' B T.
- A pinon pine, 6 ins. dia., bears S.60°W., 51 lks. dist., mkd. T 20 S R 7 E S 6' B T.
- A pinon pine, 7 ins. dia., bears N.35°20'W., 36 lks.

South bdy. T. 19 S., R. 7 E. - Continued.

Chains	
	<p>dist., mkd. T 19 S., R. 7 E S 31 B T.</p> <p>Land, mountainous (rolling).</p> <p>Soil, clay ; 3rd rate.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>A very little grass.</p> <p>Mountainous land, 80.00 chs.</p>
	<p>West, on true line bet. secs. 6 and 31.</p> <p>Over mountainous land; through scattering timber .</p> <p>Asc.</p>
21.85	Base of 10 ft. ledge, bears N. and S.
26.00	Top of spur, 100 ft. above cor., bears N. and S.
	Desc.
33.00	Bottom of hollow, 60 ft. below spur, course S.
	Asc.
35.00	Top of spur, 50 ft. above hollow, bears N. and S.
	Desc.
37.50	Bottom of sharp hollow, 100 ft. deep, course S. comes from N. 60° W.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 31 in N half and S 6 in S half; from which
	<p>A cedar, 8 ins. dia., bears N. 5° W., 22 lks.</p> <p>dist., mkd. $\frac{1}{4}$ S 31 B T.</p> <p>A cedar, 10 ins. dia., bears S. 46° E., 3 lks .</p> <p>dist., mkd. $\frac{1}{4}$ S 6 B T.</p>
42.00	Top of spur, 100 ft. above hollow, bears N. and S.
	Desc.
45.75	Bottom of hollow, 75 ft. below spur, course S. 10° E.
	Asc.

South bdy.T.19 S.,R.7 E.-Continued.

Chains	
58.20	Road on top of spur,150 ft.above hollow,bears N.20°W.and S.20°E. Desc.
64.00	Head of hollow,100 ft.below ridge,course S. Asc.
66.00	Top of spur,25 ft.above hollow,bears N.and S. Desc.
69.00	Bottom of hollow,100 ft.below spur,course S. Asc.
72.00	Top of spur,80 ft.above hollow,bears N.and S. Desc.
74.50	Bottom of hollow,50 ft.below spur,course S. Asc.
77.00	Top of spur,40 ft.above hollow,bears NW and SE. Desc.
78.50	Bottom of hollow,40 ft.below spur,course SE. Asc.
79.90	Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of Tps.19 and 20 S.,Rs.6 and 7 E.,mkd.on brass cap T 19 S in N half T 20 S in S half. R 6 E S 36' in NW. R 7 E S 31' in NE. R 7 E S 6' in SE.;and R 6 E S 1' in SW.quadrants;from which A cedar,8 ins.dia.,bears N.49°40'E.,87 lks. dist..mkd.T 19 S R 7 E S 31' B T. A cedar,7 ins.dia.,bears S.3°50'E.,99 lks. dist..mkd.T 20 S R 7 E S 6' B T. A pinon pine,6 ins.dia.,bears S.7°50'W.,33 lks. dist..mkd.T 20 S R 6 E S 1' B T. A pinon pine,5 ins.dia.,bears N.63°W.,45 lks. dist.,mkd.T 19 S R 6 E S 36' B T.

S.bdy.T.19 S.,R.7 E.-Continued.

Chains

Land,mountainous .

Soil,clay and gravel,3rd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Some grass .

Mountainous land,79.90 chs.

May 27,1910:At this cor.I set off $21^{\circ}15'N.$,on the decl.
and at 0 h 3 m p.m.,l.m.t.I observe the sun on the
meridian,the resulting lat.is $39^{\circ}07'N.$,which is the
proper lat.nearly.



U.S.Deputy Surveyor

May 27,1910;.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____
_____, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of _____

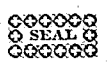
showing the respective capacities in which they acted :
~~For list of names and final oath of assistants see book "D"~~ _____, *Chainman*.
T. 19 S., R. 5 E. _____, *Chainman*.
_____, *Moundman*.
_____, *Moundman*.
_____, *Arman*.
_____, *Arman*.
_____, *Flagman*.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____
_____, United States Deputy Surveyor, in surveying all
those parts or portions of the _____

_____ of the _____
_____ meridian, _____ of _____, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for _____
_____, *Chainman*.
_____, *Chainman*.
_____, *Moundman*.
_____, *Moundman*.
_____, *Arman*.
_____, *Arman*.
_____, *Flagman*.

Subscribed and sworn to before me this _____ }
day of _____, 190 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____ United States Surveyor General for _____, bearing date of the _____ day of _____, 190____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of deputy see book "D" T. 19 S., R. 5 E.

_____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 3, 1901

The foregoing field notes of the survey of _____ Fractional South Boundary Township
No. 19 South, Range No. 7 East of the Salt Lake Base and Meridian,
Utah,

executed by _____ Clarence S. Jarvis
under his contract No. 315, dated _____ November 1, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____ has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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Page

1957

17

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FIELD NOTES

1957

IN THE MOUNTAINS OF THE

WEST COAST, WEST, AND NORTH CAROLINAS.

at

Mountain, 10.12 North, Range No. 6 West.

1957 10.12 North, Range No. 6 West

10.12 North

10.12 North

10.12 North

10.12 North

10.12 North, Range No. 6 West, 10.12 North, Range No. 6 West, 10.12 North, Range No. 6 West.

10.12 North, Range No. 6 West, 10.12 North, Range No. 6 West, 10.12 North, Range No. 6 West.

10.12 North, Range No. 6 West, 10.12 North, Range No. 6 West, 10.12 North, Range No. 6 West.

BOOK A-362

NAMES AND DUTIES OF ASSISTANTS.

Quinby Stewart

Chainsman

Karl Keeler

Chainman

Verne Nelson

Chainman

James Ollerton

Moundman

Morrille George

Moundman

Milton Fletcher

Axman

Earl Spafford

Axman

Raymond Nelson

Flagman

For preliminary affidavits see book "A" T. 19 S., R. 7 E.

BOOK A-362

INDEX DIAGRAM.

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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*

_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*

_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*

_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



East bdy.T.19 S.,R.6 E.

Survey commenced May 27,1910,and executed with a Bausch, Lomb,and Saegmuller transit No.8375,with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other,reading to thirty seconds of arc; while one minute is the least count of the latitude and declination arcs.

The instrument was examined,tested on the meridian,at Salt Lake City,found correct,and was approved by the surveyor general for Utah,on April 27,1910.

I examine the adjustments of the instrument and correct the level and collimation errors;then,to test the solar apparatus by comparing its indications resulting from solar observations made during p.m.and a.m.hours with a meridian determined by observation on Polaris,I proceed as follows:

At the cor.of Tps.19 and 20 S.,Rs.6 and 7 E.,latitude $39^{\circ}06'55''$ N.,longitude $111^{\circ}13'39''$ W.,I set off $39^{\circ}07'$ N., on the lat.arb.; $21^{\circ}19'$ N.,on the decl.arc;and at 2 h 57 m p.m.,l.m.t.,I determine a meridian with the solar,and mark a point thereof on a stone firmly set in the ground, 5.00 chs.N.of the cor.

May 27,1910.

May 28,1910:At 3 h 11 m a.m.,l.m.t.,I observe Polaris At eastern elongation,in accordance with the Manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground,5.00 chs.N. of the cor.

At 7 h 30 m a.m.,l.m.t.,I lay off the azimuth of Polaris $1^{\circ}30.6'$ to the west,and mark a point in the meridian thus determined by cutting a small groove in the stone already set 5.00 chs.N.of cor.;on which the meridian falls 0.30

East bdy.T.19 S.,R.6 E.-Continued.

chains

ins.east of the meridian established by the solar.
At 7 h 57 m a.m.,l.m.t.,I set off $39^{\circ}07'N.$,on the lat.
arc; $21^{\circ}24'N.$,on the decl.arc;and mark the meridian
determined by the solar,by a cross on the stone already
set 5.00 chs.N.of the cor.;this mark falls 0.27 ins.east
of the meridian determined by Polaris observation.
The solar apparatus by p.m.and a.m.observations defines
positions for meridians respectively about 0.16"west and
0.14"east of the meridian established by Polaris obser-
vation;therefore I conclude that the adjustments of the
instrument are satisfactory.
The magnetic bearing of the meridian at 8 h 30 m a.m.,is
 $N.16^{\circ}15'W.$,the angle thus determined,gives the mag.decl.
 $16^{\circ}15'E.$

From the cor.of Tps.19 and 20 S.,Rs.6 and 7 E.,hereto-
fore described,

I run

North,bet.secs.31 and 36.

Over mountainous land;through scattering timber and
scattering undergrowth.

Desc.over sandstone boulders.

10.50 Bottom of hollow,75 ft.below cor.,course $S.30^{\circ}E.$
Asc.

20.00 Top of ridge,100 ft.above hollow,bears $N.30^{\circ}W.$ and $S.30^{\circ}E.$
Desc.

31.10 Bottom of hollow,100 ft.below ridge,course $S.20^{\circ}E.$
Asc.

39.30 Top of ridge,200 ft.above hollow,bears $N.30^{\circ}W.$ and $S.30^{\circ}$
 $E.$

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the

East bdy. T. 19 S., R. 6 E. - Continued.

Chains

ground, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 36 in W. half and S 31 in E half; from which.

A pinon pine, 5 ins. dia., bears S. $10^{\circ}05'E.$, 98 lks.
dist. mkd. $\frac{1}{2}$ S 31 B T.

A pinon pine, 8 ins. dia., bears S. $12^{\circ}30'W.$, 105 lks.
dist. mkd. $\frac{1}{4}$ S 36 B T.

40.80 Bottom of hollow, 200 ft. below ridge, course S. $55^{\circ}E.$,
Asc.

41.50 Top of spur, 100 ft. above hollow, bears N. $60^{\circ}W.$ and S. $60^{\circ}E.$
Desc.

47.00 Bottom of hollow, 100 ft. below spur, course SE.

Note: It is impossible to chain farther on this line on account of precipitious ledges; therefore I erect a flag on line on top of ledges, and measure a base East 30.00 chs. to a point from which flag on top on top of ledges bears N. $34^{\circ}17'W.$, and from the flag the east end of base bears S. $34^{\circ}17'E.$; I therefore calculate the distance as follows:

$\text{Cotan } 34^{\circ}17' \times \text{base or } 1.46686 \times 30.00 = 44.00 \text{ chs.}$

which added to 47.00 chs. makes

91.00 Or 11.00 chs. North of sec. cor. point.

Top of ledges, 1000 ft. above hollow, bears E. and W.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 19 S in N half.

R 6 E S 25 in NW.

W C R 7 E S 30 in NE.

S 31 in SE.; and

S 36 in SW. quadrants; from which

A pinon pine, 12 ins. dia., bears N. $35^{\circ}10'E.$, 107 lks. dist. mkd. W C T 19 S R 7 E S 30 B T.

A red pine, 16 ins. dia., bears S. $53^{\circ}05'E.$, 58 lks.
dist. mkd. W C T 19 S R 7 E S 31 B T.

East bdy. T. 19 S. R. 6 E. -Continued:

Chains

A mahogany 6 ins. dia., bears S. 14° 25' W., 46 lks.
dist. mkd. W C T 19 S R 6 E S 36 B T.

A pinon pine; 22 ins. dia., bears N. 64° 45' W., 37
lks. dist. mkd. W C T 19 S R 6 E S 25 B T.

Land, mountainous.

Soil, clay loam and rocky; 3rd and 4th rate.

Timber, cedar, pinon pine; and mahogany.

Undergrowth, shadscales and greasewood.

Good grass for grazing.

Mountainous land, 80.00 chs.

From the witness cor. to cor. of secs. 25, 30, 31, and 36,
which is 11.00 chs. North of the point for cor.

Thence 1 run

North, bet. secs. 25 and 30.

Distances counted from point for sec. cor.

Over plateau; through heavy timber and scattering under-
growth.

Desc.

19.43 Leave plateau and begin abrupt descent over ledges, bears
E and W.

24.43 Top of perpendicular ledge, 200 ft. high, bears E. and W.

Note: It is impossible to chain farther on this line
on account of ledges; therefore at this point I

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for witness cor. to $\frac{1}{4}$ sec. cor., mkd. on brass cap
T 19 S in N half; R 6 E S 25 W C $\frac{1}{4}$ in W half; and R 7 E S
30 in E half; from which

A balsam, 14 ins. in dia., bears S. 36° E., 43 lks.
dist. mkd. W C $\frac{1}{4}$ S 30 B T.

East bdy. T. 19 S., R. 6 E.-Continued.

Chains

A balsam, 14 ins. dia., bears N. 80° W., 15 lks. dist.
mkd. W C $\frac{1}{4}$ S 25 B T.

Note: In order to determine the distance across the next canon; I set flag on line on top of sharp ridge north of canon, and measure a base west 40.00 chs. to a point from which flag on ridge bears N. 27° 04' E., and from the flag on ridge the west end of base bears S. 27° 04' W.; I determine the distance across the canon as follows:

$\cotan 27^{\circ}04' \times \text{base or } 1.95698 \times 40.00 = 78.28$
chs. which added to 24.43 chs. makes

102.71 Or 22.71 chs. North of the point for cor.

Top of ridge on north side of canon, bears NE and SW.
Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., mkd. on brass cap T 19 S in N half; R 6 E W C $\frac{1}{4}$ S 24' in W half; and R 7 E S 19 in E. half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous .

Soil, rocky; 4th rate. .

Timber, cedar and pinon pine.

Undergrowth, sage brush.

No grass .

Mountainous land, 80.00 chs.

May 28, 1910: At this cor. I set off 21° 25' N., on the decl. arc; and at 11 h. 57 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 39° 10' N., which is the proper lat. nearly.

From the witness cor. to the $\frac{1}{4}$ sec. cor. bet. secs. 19 and 24 which is 22.71 chs. North of the regular point for cor. of secs. 19, 24, 25, and 30,

I run

East bdy.T.19 S.,R.6 E.-Continued.

Chains

North bet.secs.19 and 24,

(Counting distances from sec.cor.point.)

Over mountainous land;through scattering timber.

Note:It is impossible to chain north from here on account of precipitious ledges;therefore I erect a flag on line at this point and proceed to a point on line on north edge of canon, from which I measure a base West 63.00 chs.to a point from which flag south of canon bears S.43°41'E.;I calculate the distance across the canon as follows:

$$\text{Cotan } 43^{\circ}41' \times \text{base or } 1.04705 \times 63 = 65.96$$

which added to 22.71 chs.makes

88.67 North edge of canon,edge of plateau,bears N.30°E.and S.

30°W.

Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for witness cor.to cor.of secs.13,18,19,and 24, mkd.on brass cap

T 19 S in N half.

R 6 E S 13 in NW.

WC R 7 E S 18 in NE.

S 19 in SE.;and

S 24 in SW.quadrants;from which

A mahogany 6 ins.dia.,bears N.45°E.,69 lks.

dist..mkd. W C T 19 S R 7 E S 18 B T.

A pinon pine,12 ins.dia.,bears S.34°E.,62 lks.

dist..mkd. W C T 19 S R 7 E S 18 B T.

A mahogany,8 ins.dia.,bears S.42°25'W.,43 lks.

dist..mkd. W C T 19 S R 6 E S 13 B T.

A mahogany 8,ins.dia.,bears N.45°45'W.,60 lks.

dist..mkd.W C T 19 S R 6 E S 13 B T.

Land,mountainous very rough.

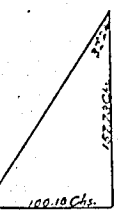
Soil,rocky;4th rate.

Timber,cedar,pinon pine,and mahogany.

Good grass for grazing.

East bdy.T.19 S.,R.6 E.-Continued.

Chains	
	Mountainous land,80.00 chs.
	From the witness cor.to cor.of secs.13,18,19,and 24, which is 8.67 chs.North of the regular cor.point, I run North,bet.secs.13 and 18. (Counting distances from cor.point) Over Plateau;through scattering timber and dense sage brush. Desc.gradually.
20.22	Leave plateau at edge of Rock Canon,bears NW and SE. Note:Cannot chain farther on account of precipitious ledges;therefore I Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for witness cor.to $\frac{1}{4}$ sec.cor..mkd.on brass cap T 19 S.in N half :R 6 E W C $\frac{1}{4}$ S 13 in W half;and R 7 E S 18' in E half;from which A pinon pine,24 ins.dia.,bears S.22°30'E.,32 lks. dist..mkd. W C $\frac{1}{4}$ S 18' B T. A pinon pine,12 ins.dia.,bears N.6°10'W.,61 lks. dist..mkd. W C $\frac{1}{4}$ S 13' B T. In order to determine the distance across canon,I erect a flag on North edge of canon and measure a base West 100.10 chs.to point from which the flag on north edge of canon bears N.32°24'E. and from the flag on north edge of canon the flag at west end of base bears S.32°24'W. I calculate the distance across canon as follows: Cotan 32°24' x base or 1.57575 x 100.10 = 157.73 chs. which added to 20.22 chs.makes.
177.95	Or 17.95 chs.North of the proper point for the cor.of secs.1,6,7,and 12.



East bdy.T.19 S.,R.6 E.-Continued.

Chains

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 1, 6, 7, and 12, mkd. on brass cap

T 19 S in N half.

R 6 E S 1 in NW.

W C R 7 E S 6 in NE.

S 7 in SE; and

S 12 in SW quadrants; from which

A yellow pine, 16 ins. dia., bears N. 75° 25' E., 30 lks. dist.. mkd. W C T 19 S R 7 E S 6 B T.

A yellow pine, 30 ins. dia., bears S. 69° 27' E., 74 lks. dist.. mkd. W C T 19 S R 7 E S 6 B T.

A yellow pine, 36 ins. dia., bears S. 79° 58' W., 110 lks. dist.. mkd. W C T 19 S R 6 E S 1 B T.

A yellow pinw, 24 ins. dia., bears N. 49° 48' W., 185 lks. dist.. mkd. W C T 19 S R 6 E S 1 B T.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar, pinon pine, and yellow pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, 160.00 chs.

From the witness cor. to cor. of secs. 1, 6, 7, and 12, which is 17.95 chs. North of the regular point for cor.

I run

North, bet. secs. 1 and 6.

(Counting distances from the regular cor. point)

Over rolling plateau; through dense undergrowth and scattering timber.

Asc. gradually.

East bdy. T. 19 S. R. 6 E-Continued.

Chains

35.00 Leave plateau, bears NW. and SE.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 1 in W half and S 6 in E half; from which

An aspen, 5 ins. in dia., bears N. 41° E., 5 lks.

dist. mkd. $\frac{1}{4}$ S 6 B T.

An aspen, 5 ins. in dia., bears S. 89° W., 11 lks.

dist. mkd. $\frac{1}{4}$ S 1 B T.

53.00 Bottom of hollow, 50 ft. below $\frac{1}{4}$ sec. cor., course N. 40° E.

Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of Tps. 18 and 19 S., Rs. 6 and 7 E., mkd. on brass cap

T 18 S in W half

T 19 S in S half

R 6 E S 36 in NW.

R 7 E S 31 in NE.

R 7 E S 6 in SE; and

R 6 E S 1 in SW. quadrants; from which

A pinon pine, 12 ins. in dia., bears N. 29° 15' E., 45 lks. dist. mkd. T 18 S R 7 E S 31 B T.

A pinon pine, 10 ins. in dia., bears S. 53° 35' E., 42 lks. dist. mkd. T 19 S R 7 E S 6 B T.

A pinon pine, 6 ins. in dia., bears S. 75° 50' W., 73 lks. dist. mkd. T 19 S R 6 E S 1 B T.

A pinon pine, 6 ins. in dia., bears N. 83° 45' W., 76 lks. dist. mkd. T 18 S R 6 E S 36 B T.

Land, mountainous and rolling.

Soil, sandy and clay loam and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine and yellow pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

East bdy.T.19 S.,R.6 E.-Continued.

Chains

80.00 chs.

May 28, 1910.

S.bdy.T.19 S.,R.6 E.

May 29, 1910 : At 7 h 55 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat.arc; $21^{\circ}34'N.$, on the decl.arc; and determine a meridian with the solar, at the cor. of Tps. 19 and 20 S., Rs. 6 and 7 E., heretofore described ,

Thence I run

West, on a true line bet. secs. 1 and 36.

Over mountainous land; through scattering timber .

Asc.

20.00 Top of spur, 100 ft. above Tp. cor. bears NW and SE.

Desc.

26.00 Bottom of hollow, 50 ft. below spur, course SE.

Asc.

28.00 Edge of bluff on W side of hollow, bears NW and SE. Thence over broken ground.

33.00 Top of spur, 150 ft. above hollow, bears NW and SE.

Desc.

39.00 Bottom of hollow, 150 ft. below spur, course $S. 20^{\circ}E.$

Asc.

40.00 Point for $\frac{1}{4}$ sec. cor. falls on smooth ledge where floods would destroy the cor.; therefore I mark a cross at the exact point for $\frac{1}{4}$ sec. cor. and at

40.62 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the

South bdy. T. 19 S., R. 6 E. - Continued.

Chains	ground (it being impossible to dig deeper on account of encountering rocks) and surrounded by mound of stone for witness corner to $\frac{1}{2}$ sec. cor. mkd. on brass cap T 19 S R 6 E S W C $\frac{1}{4}$ S 36 in N half; and S 1 in S half; raise a mound of stone, 4 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
52.00	Base of sandstone ledges, 350 ft. high, bears N. 30° E. and S. 30° W. Asc.
69.00	Top of ledge, 1500 ft. above $\frac{1}{4}$ sec. cor., bears N. 30° E. and S. 30° W.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs, 1, 2, 35 and 36. mkd. on brass cap <p style="margin-left: 40px;">T 19 S S 35 in NW. R 6 E S 36 in NE. T 20 S S 1 in SE; and R 6 E S 2 in SW. quadrants; from which A pinon pine, 36 ins. in dia., bears N. 19° 00' E., 162 lks. dist. mkd. T 19 S R 6 E S 36 B T. A pinon pine, 6 ins. in dia., bears S. 22° 35' E., 66 lks. dist. mkd. T 20 S R 6 E S 1 B T. A pinon pine, 8 ins. in dia., bears S. 54° 25' W., 140 lks. dist. mkd. T 20 S R 6 E S 2 B T. A pinon pine, 36 ins. in dia., bears N. 51° 20' W., 166 lks. dist. mkd. T 19 S R 6 E S 35 B T.</p> <p>Land, mountainous. Soil, sandy and clay loama and rocky; 2nd and 4th rate. Timber, cedar, pinon pine and yellow pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 80.00 chs..</p>

South bdy. T.19 S., R.6 E.-Continued.

Chains

West on a true line, bet. secs. 2 and 35.

Over mountainous land, through scattering timber and scattering undergrowth.

Desc.

2.40 Gully, 15 ft. deep, 30 ft. wide, course S. 70° W.

Asc.

4.00 Top of spur, 50 ft. above gully, bears NE. and SW.

5.34 Top of ascent, bears N. 30° W. and S. 30° E.

Desc. over ledges.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 35° in N half and S 2 in S half; from which

A cedar, 6 ins. in dia., bears N. 10° 20' W., 265 lks.

dist. mkd. $\frac{1}{4}$ S 35° B T.

A cedar, 4 ins. in dia., bears S. 51° E., 83 lks.

dist. mkd. $\frac{1}{4}$ S 2° B T.

Bottom of hollow, 1400 ft. below spur, course S. 75° W.

Asc.

47.35 Top of spur, 200 ft. above hollow, bears N. 20° E. and S. 20° W.

Desc.

50.00 Bottom of hollow, 200 ft. below spur, course S. 30° W.,

heading about 40.00 chs. N. 30° E. In the head is a small

spring running over the main ledge and coursing SW.

Asc.

62.76 Top of spur, 700 ft. above hollow, bears N. 20° E. and S. 20° W.

Desc.

80.00 Fall on boulders, 25x15x12 ft., since the corner cannot be set at this point, I mark a cross (x) on the boulder and return to 79.80 chs.

Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground on solid rock bottom and surrounded by mound of stone for ^{witness} cor. of secs. 2, 3, 34 and 35. mkd. on brass cap

South Bdy. T. 19 S., R. 6 E. - Continued.

Chains.

T 19 S S. 34 in NW.

W C R 6 E S 35 in NE.

T 20 S S 2 in SE.; and

R 6 E S 3 in SW. quadrants; from which

A pinon pine, 5 ins. in dia., bears S. 34° E. 75 lks.

dist., mkd. W C T 20 S R 6 E S 2 B T

No other bearing trees within limits; raise a mound of
stone 2 ft. base, 1½ ft. high W. of cor.

Land, mountainous.

Soil, rocky, sandy loam, and gravelly; 2d and 4th rates.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land 80.00 chs.

Beginning at the W.C. to cor. of secs. 2, 3, 34, and 35,
which is 20 lks. west of the true corner point, I run
with continuous measurement,

West on a true line bet. secs. 3 and 34,

Over mountainous land; through scattering undergrowth.

Descend over boulders.

3.40 Bottom of hollow, 100 ft. below sec. cor.; course south.
Asc. over ledges.

19.65 Top of ledge, 350 ft. high, bears NE. and SW.
There is a bed of coal about 7 ft. thick on top of this
ledge.

Continue ascent.

22.00 7 ft. outcrop of good soft coal, bears N. 70° E. and S.
70° W.

27.00 Top of spur, 800 ft. above sec. cor., bears NE. and SW.
Desc. over ledges.

South Bdy. T. 19 S., R. 6 E.- Continued.

- Chains.
36.50 Leave ledges, bears N. and S.
Enter scattering timber, bears N. and S.
Thence over large boulders, bears N. and S.
- 40.00 Falls on boulder 20 x 30 x 10 ft., inaccessible on top;
being unable to set a corner at this point, I continue
- 40.09 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in
ground, for witness corner to $\frac{1}{4}$ sec. corner, mkd. on
brass cap T 19 S R 6 E W C $\frac{1}{4}$ S 34 in N. half; and S 3
in S. half; from which
A pinon pine, 8 ins. in dia., bears N. 44° W. 35 lks.
dist., mkd. W C $\frac{1}{4}$ S 34 B T
A pinon pine, 4 ins. in dia., bears S. 5° E. 71 lks.
dist., mkd. W C $\frac{1}{4}$ S 3 B T
- 53.91 East brink of Biddlecum hollow, bears N. 30° E. and S. 30°
W. Desc.
- 56.20 Bottom of Biddlecum Hollow, 1000 ft. below spur, course
S. 20° W. Asc.
- 56.60 Outcropping of two coal seams, each 3 ft. thick, with two
feet of rock between them. From this point I also ob-
serve north 1.50 chs. to tunnel 6x5 ft. section by 5 ft.
length, claimant unknown, in a 5 ft. coal bed. This
coal is clear, soft, and mixed with a yellow resinous
substance. The bearing of the outcrops is N. 20° E.
and S. 20° W. Asc. over ledges.
- 67.26 Top of spur, 750 ft. above hollow, bears N. and S. Desc.
- 68.50 Leave ledges, bear N. and S.
- 80.00 Set an iron post 3 ft. long, .3 ins. in dia., 24 ins. in the
ground, for cor. of secs. 3, 4, 33, and 34, mkd. on brass cap,
T 19 S S 33 in NW.
R 6 E S 34 in NE.
T 20 S S 3 in SE.; and
R 6 E S 4 in SW. quadrants; from which
A pinon pine, 8 ins. in dia. bears N. 79° 30' E. 73
lks. dist., mkd. T 19 S R 6 E S 34 B T
A pinon pine, 5 ins. in dia., bears S. 68° 15' E. 42
lks. dist., mkd. T 20 S R 5 E S 3 B T

South Bdy. T. 19, S., R. 6 E. -Continued.

Chains

A pinon pine, 8 ins. in dia., bears S. 58° 45' W., 126
lks. dist. mkd. # 20 S R 6 E S 4 B T.

A pinon pine, 7 ins. in dia., bears N. 77° 45' W., 187
lks. dist. mkd. T 19 S R 6 E S 33 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, 80.00 chs.

May 29, 1910; At this cor. I set off 21° 35' N., on the decl.
arc. and at 12 h 3 m p.m. l. m. t., I observe the sun on the
meridian, the resulting lat. is 39° 07' N., which is the
proper lat. nearly.

West on a true line bet. secs. 4 and 33.

Over mountainous land, through scattering timber.
Asc.

5.20 Ledge, 25 ft. high, bears N. 25° W. and S. 25° E.

Thence over ledges.

21.00 Base of ledge, at North edge of Ferron Creek Canon, 800 ft.
below sec. cor., bears N. 60° W. and S. 60° E.

27.30 Left bank of Ferron Creek, course S. 60° E. The Creek is 1
ft. deep, rocky bottom and rapid current.

28.50 Right bank of Ferron Creek, bears NW. and SE.

29.00 Leave Canon, bottom, bears NW. and SE.

Asc.

34.35 Top of spur, 250 ft. above Canon bottom, bears N. and S.

South Bdy. T. 19 S., R. 6 E. - Continued.

Chains Desc.

39.00 Birch Creek, 8 lks. wide, 4 ins. deep, in bottom of Canon, 200 ft. below ridge, course N. 30° E.

Note: At about 5 to 7 chs. North on the East side of Birch Creek, is series of springs containing a percentage of iron and sulphur and having a total flow of about one cubic ft. of water per second.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 33° in N half and S 4° in S half; from which

A cedar, 5 ins. in dia., bears N. 70° 10' W., 310 lks. dist. mkd. $\frac{1}{4}$ S 33° B T.

A cottonwood, 8 ins. in dia., bears S. 5° 30' W., 147 lks. dist. mkd. $\frac{1}{4}$ S 4° B T.

43.00 Ascend over ledges, bears NE. and SW.

59.82 Top of ridge, 700 ft. above Canon, bears N. 20° W. and S. 20° E.
Leave ledges, bears N. 20° W. and S. 20° E.

Enter heavy timber, bears NW. and SE.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33. mkd. on brass cap

T 19 S S 32 in NW.

R 6 E S 33 in NE.

T 20 S S 4 in SE; and

R 6 E S 5 in SW, quadrants; from which

A pinon pine, 10 ins. in dia., bears N. 58° E., 36 lks. dist. mkd. T 19 S R 6 E S 33° B T.

A pinon pine, 11 ins. in dia., bears S. 53° 30' E., 26 lks. dist. mkd. T 20 S R 6 E S 4° B T.

A cedar, 5 ins. in dia., bears S. 43° 30' W., 22 lks. dist. mkd. T 20 S R 6 E S 5° B T.

A pinon pine, 6 ins. in dia., bears N. 69° W., 23 lks. dist. mkd. T 19 S R 6 E S 32° B T.

Land, mountainous

South bdy. T.19 S. 6 R.6 E.-Continued.

Chains Soil, rocky; 4th rate.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, 80.00 chs.

West on a true line bet. secs. 5 and 32.

Over mountainous land, through heavy timber and scattering undergrowth.

14.00 Ascend over series of sandstone ledges, bears N.10°E. and S.10°W.

Leave heavy timber and enter scattering, bears N.10°E. and S.10°W.

24.32 Top of ledges, 700 ft. above sec. cor., bears N.10°E. and S.10°W. Thence over mesa.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 32° in N half and S 5° in S half; from which

A pinon pine, 14 ins. in dia., bears N.29°30'W., 53 lks. dist. mkd. $\frac{1}{4}$ S 32° B T.

A cedar, 15 ins. in dia., bears S.30°30'W., 31 lks. dist. mkd. $\frac{1}{4}$ S 5° B T.

61.76' West edge of mesa, bears N.10°W. and S.10°E.
 Desc. over ledges.

69.50 Bottom of hollow, 350 ft. below spur, course N.
 Asc.

75.00 Top of spur, 100 ft. above hollow, bears N. and S.
 Desc.

78.80 Bottom of hollow, 100 ft. below spur, course N.15°E.
 Asc.

South bdy. T. 19 S., R. 6 E. -Continued.

Chains

80.00

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 31 and 32..mkd. on brass cap

T 19 S S 31 in NW.

R 6 E S 32 in NE.

T 20 S S 5 in SE; and

R 6 E S 6 in SW, quadrants; from which

A cedar, 5 ins. in dia., bears N. 25° 50' E., 91 lks. dist..mkd. T 19 S R 6 E S 32' B T.

A cedar, 4 ins. in dia., bears S. 50° 50' E., 41 lks. dist..mkd. T 20 S R 6 E S 5' B T.

A cedar, 6 ins. in dia., bears S. 64° W., 36 lks. dist. mkd. T 20 S R 6 E S 6' B T.

A pinon pine, 5 ins. in dia., bears N. 14° 30' W., 106 lks. dist..mkd. T 19 S R 6 E S 31' B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous, or heavily timbered land, 80.00 chs.

West on a true line bet. secs. 6 and 31.

Over mountainous land, through scattering timber.

Asc..

1.00 Top of spur, 10 ft. above sec. cor., bears N. and S.

Desc..

2.30 Bottom of hollow, 25 ft. below spur, course N. 10° W.

Asc..

3.00 Old road, to Sawmill, bears N. 10° W. and S. 10° E.

South bdy. T. 19 S., R. 6 E. -Continued.

Chains	
36.65	Top of ascent, bears N. and S. Ascent gradually.
40.00	Set an iron post, 3 ft. ^{long} 1 in. in dia., 6 ins. in the ground on solid rock bottom and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 31 in N half and S 6 in S half; from which A cedar, 6 ins. in dia., bears N. 27° 20' E., 82 lks. dist. mkd. $\frac{1}{4}$ S 31 B T. A pinon pine, 14 ins. in dia., bears S. 35° 20' E., 125 lks. dist. mkd. $\frac{1}{4}$ S 6 B T.
41.00	Top of spur, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. 20° E. and S. 20° W. Desc.
51.01	Wash, 3 lks. wide, 2 ft. deep, in bottom of hollow, 200 ft. below spur, course N. 30° E. Asc.
64.00	Top of steep ascent, bears N. 30° E. and S. 30° W. Leave timber, bears N. 30° E. and S. 30° W. Asc. gradually.
72.00	Top of spur, 300 ft. above hollow, bears N. 25° E. and S. 25° W. Desc.
79.41	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. Tps. 19 & 20 S., Rs. 5 and 6 E. mkd. on brass cap T 19 S S 36 in NW. R 6 E S 31 in NE. T 20 S S 6 in SE; and R 5 E S 1 in SW. quadrants; raise a mound of stone, 3 ft. base, 2 ft. high, S. of Cor. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar and pinon pine.

South bdy. T. 19 S., R. 6 E. - Continued.

Chains Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, 79.41 chs.

May 29, 1910.

May 30, 1910: At 8 h 3 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat. arc; $21^{\circ}43'N.$, on the decl. arc; and determine a meridian with the solar at the cor. of Tps. 19, and 20 S.; Rs. 5 and 6 E. heretofore described.

Thence I run North on a true line bet. secs. 31 and 36. Over mountainous land through scattering undergrowth. Desc.

- 13.00 Enter scattering timber, bears NE. and SW.
- 21.00 Stevens Creek, 6 lks. wide, 2 ins. deep in bottom of hollow, 500 ft. below tp. cor., course NE. Asc. over ledges.
- 25.76 top of ledges, 100 ft. high, bears NE. and SW.
- 26.00 Leave ledges, bears NE. and SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap, $\frac{1}{4}$ S 36° in W half and 331° in E half; from which
 - A red pine, 8 ins. in dia., bears N. $74^{\circ}25'E.$, 42 lks. dist. mkd. $\frac{1}{4}$ S 31° B T.
 - A pinon pine, 6 ins. in dia., bears S. $1^{\circ}00'W.$, 77 lks. dist. mkd. $\frac{1}{4}$ S 36° B T.
- 48.00 Top of ridge bears NE. and SW.
- 66.50 Enter heavy timber, bears E. and W.
- 68.30 Leave timber, bears E. and W.
- 74.00 Dairy Creek, 4 lks. wide, 3 ins. deep, in bottom of canon, 400

West bdy. T. 19 S., R. 6 E.-Continued.

Chains ft. below spur, course N. 65° E.

Asc. over boulders and ledges.

78.00 Leave ledges, bears N. 70° E. and S. 70° W.

Enter heavy timber, bears N. 70° E. and S. 70° W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, mkd. on brass cap

T 19 S in N half.

R 5 E S 25 in NW.

R 6 E S 30 in NE.

S 31 in SE.; and

S 36 in SW. quadrants; from which

A cedar, 9 ins. dia., bears N. 32° 39' E., 71 lks.

dist..mkd. T 19 S R 6 E S 30[✓] B T.

A pinon pine, 11 ins. dia., bears S. 55° E., 25 lks.

dist..mkd. T 19 S R 6 E S 31[✓] B T.

A pinon pine, 12 ins. dia., bears S. 40° W., 22 lks.

dist..mkd. T 19 S R 5 E S 36[✓] B T.

A pinon pine, 12 ins. dia., bears N. 9° W., 75 lks.

dist..mkd. T 19 S R 5 E S 25[✓] B T.

Land, mountainous .

Soil, sandy and gravelly; 2nd and 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, service berry and sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

North, bet. secs. 25 and 30.

Over mountainous land; through heavy timber .

Asc.

5.50 Leave timber, bears N. E. and N. 30° W.

Enter dense sage brush, bears NE. and N. 30° W.

16.00 Enter heavy timber, bears N. 70° W. and S. 70° E.

West bdy. T. 19 S., R. 6 E. -Continued.

Chains

- Begin abrupt ascent, bears N. 70° W. and S. 70° E.
- 26.07 Toptoff steep ascent, bears NE and SW.
- Leave heavy and enter scattering timber, bears NE and SW.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 25 in W half and S 30 in E half; from which
- A red pine, 11 ins. in dia., bears N. 45° 40' E., 22 lks. dist. mkd. $\frac{1}{4}$ S 30 B T.
- A red pine, 7 ins. dia., bears N. 69° W., 93 lks. dist. mkd. $\frac{1}{4}$ S 25 B T.
- 43.00 Northeast point of ridge, bears N. 30° E. and S. 30° W.
- Desc.
- 69.00 Enter heavy timber, bears E. and W.
- 75.65 Begin steep descent, bears E. and W.
- 77.75 A small spring flowing about 6 gallons per minute bears West 35 lks. dist.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 30 31 and 36. mkd. on brass cap
- T 19 S in N half.
- R 5 E S 24 in NW.
- R 6 E S 19 in NE.
- S 30 in SE.; and
- S 25 in SW. quadrants; from which
- A red pine, 14 ins. dia., bears N. 25° E., 102 lks. dist. mkd. T 19 S R 6 E S 19 B T.
- A cedar, 20 ins. dia., bears S. 63° E., 22 lks. dist. mkd. T 19 S R 6 E S 30 B T.
- A red pine, 10 ins. dia., bears S. 67° W., 35 lks. dist. mkd. T 19 S R 5 E S 25 B T.
- A red pine, 10 ins. dia., bears N. 71° W., 48 lks. dist. mkd. T 19 S R 5 E S 24 B T.
- Land, mountainous.
- Soil, sandy and gravelly loam; 2nd rate.

West bdy.T.19 S.,R.6 E.-Continued.

Chains	
	<p>Timber, cedar, pinon pine, red pine, and balsam.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.</p>
	<p>North, bet. secs. 19 and 24 .</p> <p>Over mountainous land; through heavy timber .</p> <p>Desc.</p>
12.00	<p>Bottom of rocky hollow, 350 ft. below sec. cor., course NE.</p> <p>Asc.</p>
20.50	<p>Top of spur, 100 ft. above hollow, bears N.35°E. and S.35° W.</p> <p>Desc.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 24° in W half and S 19° in E half; from which</p> <p style="padding-left: 40px;">A pinon pine, 5 ins. dia., bears S.70°E., 32 lks. dist.. mkd. $\frac{1}{2}$ S 19° B T.</p> <p style="padding-left: 40px;">A pinon pine, 4 ins. dia., bears S.30°W., 12 lks. dist.. mkd. $\frac{1}{4}$ S 24° B T.</p>
45.30	<p>Right bank of Ferron Creek, 600 ft. below ridge, in canon, course S.65°E.</p> <p>Leave timber, bears N.65°W. and S.65°E.</p>
46.20	<p>Left bank of Ferron Creek, water 2½ ft. deep, rocky bottom rapid current, course S.65°E.</p> <p>Asc. over ledges and boulders.</p>
66.00	<p>Foot of nearly vertical ledge, bears N.65°W. and S.65°E.</p> <p>Enter scattering timber, bears N.65°W. and S.65°E.</p>
70.00	<p>Top of ledge, 300 ft. above foot, and edge of mesa, 1600 ft above Ferron Creek, bears N.65°W. and S.65°E.</p> <p>Thence over mesa.</p>

West bdy.T.19 S.,R.6 E.-Continued.

Chains	
80.00	<p>Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 18, 19, and 24, mkd. on brass cap</p> <p>T 19 S in N half.</p> <p>R 5 E S 13 in NW.</p> <p>R 6 E S 18 in NE.</p> <p>S 19 in SE.; and</p> <p>S 24 in SW. quadrants; from which</p> <p>A pinon pine, 8 ins. dia., bears N. 55° 50' E., 97 lks. dist.. mkd. T 19 S R 6 E S 18 B T.</p> <p>A pinon pine, 12 ins. dia., bears S. 82° E., 59 lks. dist.. mkd. T 19 S R 6 E S 19 B T.</p> <p>A pinon pine, 14 ins. dia., bears S. 75° 50' W., 92. lks. dist.. mkd. T 19 S R 5 E S 24 B T.</p> <p>A cedar, 6 ins. dia., bears N. 52° 30' W., 268 lks. dist.. mkd. T 19 S R 5 E S 13 B T.</p> <p>Land, mountainous and nearly level.</p> <p>Soil, sandy loam and clay; 2nd and 3rd rate.</p> <p>Timber, cedar, pinon pine, and red pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, 80.00 chs.</p> <p>May 30, 1910: At this cor. I set off 21° 44' N., on the decl. arc; and at 11 h 57' a.m., l.m.t., I observe the sun on the meridian the resulting lat. is 39° 10' N., which is the proper lat. nearly.</p>
1.00	Leave timber, bears E. and W.
20.00	Enter scattering timber, bears NW and SE.

West bdy.T.19 S.,R.6 E.-Continued.

Chains	
35.00	Begin steep ascent,bears NE and W. Leave sage brush and enter heavy timber,bears NE and SW.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor.mkd.on brass cap $\frac{1}{4}$ S 13 $^{\circ}$ in W.half and S 18 $^{\circ}$ in E half;from which A pinon pine,12 ins.dia.,bears N.33 $^{\circ}$ E.,118 lks. dist..mkd. $\frac{1}{4}$ S 18 $^{\circ}$ B T. A pinon pine,8 ins.in dia.,bears N.0 $^{\circ}$ 5'W.,101 lks.dist..mkd. $\frac{1}{4}$ S 13 $^{\circ}$ B T.
44.00	Top of ascent,bears N.10 $^{\circ}$ E.and West. Thence along East brink of ridge,bears N.and S.
50.00	East brink of ridge,bears N.20 $^{\circ}$ W.and S.20 $^{\circ}$ E. Desc.
57.00	Bottom of swale,50 ft.below $\frac{1}{4}$ sec.cor.,course E. Asc.
63.00	East brink,40 ft.above swale,bears N.20 $^{\circ}$ E.and S.20 $^{\circ}$ W. Thence along nearly level ridge,top.
80.00	Center of a natural reservoir,about 300 ft.in dia.,depth about 2 $\frac{1}{2}$ ft.lies NW.about 6.00 chs. Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground for cor,of secs.7,12,13 and 18..mkd.on brass cap T 19 S in N $^{\circ}$ half R 5 E S 12 $^{\circ}$ in NW. R 6 E S 7 $^{\circ}$ in NE. S 18 $^{\circ}$ in SE;and S 13 $^{\circ}$ in SW,quadrants;from which A pinon pine,14 ins.in dia.,bears N.17 $^{\circ}$ 40'E.,171 lks.dist..mkd. T 19 S R 6 E S 7 $^{\circ}$ B T. A pinon pine,7 ins.in dia.,bears S.25 $^{\circ}$ E.,54 lks. dist..mkd. T 19 S R 6 E S 18 $^{\circ}$ B T. A cedar,14 ins.in dia.,bears S.26 $^{\circ}$ W.,13 lks.dist mkd. T 19 S R 5 E S 13 $^{\circ}$ B T.

West bdy. T.19 S., R.6 E. -Continued.

Chains

A cedar, 16 ins. in dia., bears N. 12° W., 38 lks.
dist..mkd. T 19 S R 5 E S 12 B T.

Land, mountainous.

Soil, gravelly; 3rd tract.

Timber, cedar, red and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

North on a true line bet. secs. 7 and 12.

Over mountainous land, through scattering timber.

Desc.

38.00 Gully, 6 lks. wide, 50 ft. deep, course East.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the
ground on solid rock bottom and surrounded by mound of
earth and stone, for $\frac{1}{4}$ sec. cor..mkd. on brass cap
 $\frac{1}{4}$ S 12 in W half and S 7 in E half; from which

A pinon pine, 20 ins. in dia., bears S. 24° E., 89
lks. dist..mkd. $\frac{1}{4}$ S 7 B T.

A pinon pine, 10 ins. in dia., bears N. 80° W., 45
lks. dist..mkd. $\frac{1}{4}$ S 12 B T.

47.50 Top of ridge, 150 ft. above $\frac{1}{4}$ sec. cor., bears E, and W.

Desc.

50.50 Bottom of hollow, 100 ft. below ridge, course SE.

Asc. abruptly.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the
ground, for cor. of secs. 1, 6, 7 and 12..mkd. on brass cap

T 19 S in N half

West bdy. T. 19 S., R. 6 E. -Continued.

Chains

R 5 E S 1 in NW half

R 6 E S 6 in NE.

S 7 in SE; and

S 12 in SW. quadrants; from which

A pinon pine, 30 ins. in dia., bears N. 19° 15' E.

30 lks. dist. mkd. T 19 S R 6 E S 6 B T.

A pinon pine, 24 ins in dia., bears S. 49° 45' E.,

113 lks. dist. mkd. T 19 S R 6 E S 7 B T.

A cedar, 30 ins. in dia., bears S. 66° 15' W.,

63 lks. dist. mkd. T 19 S R 5 E S 12 B T.

A cedar, 20 ins. in dia., bears N. 62° W., 76

lks. dist. mkd. T 19 S R 5 E S 1 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, 80.00 chs.

 North on a true line bet. secs. 1 and 6.

Over mountainous land, through dense undergrowth; and scattering timber.

Asc. abruptly.

8.00 Top of ascent, 200 ft. above cor., bears N. 80° E. and S. 80° W.

Thence over mesa.

16.00 Leave mesa, bears NW and SE.

desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 1 in W half and S 6 in E half; and raise a mound of stone, 2 ft. base,

West bdy. T.19 S., R.6 E.-Continued.

Chains

1½ ft. high, W. of cor.

58.00 Creek, 2 lks. wide, 1 in. deep, in bottom of canon, 300 ft. below mesa, course S. 70° E.

Asc. abruptly.

62.00 Top of steep ascent, 200 ft. above canon, bears W. and E.
Asc. more gradually.

71.00 Enter heavy timber, bears E. and W.

74.00 Leave timber, bears E. and W.

76.00 Enter heavy timber, bears E. and W.

79.00 Leave timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of Tps. 18 and 19 S., Rs. 5 and 6 E.; mkd.

on brass cap

T 18 S in N half

T 19 S in S half.;

R 5 E S 36 in NW.

R 6 E S 31 in NE.

R 6 E S 6 in SE.; and

R 5 E S 1 in SW quadrants; from which

A red pine, 33 ins. dia., bears N. 31° 25' E., 383 lks.

dist. mkd. T 18 S R 6 E S 31 B T.

An aspen, 7 ins. dia., bears S. 44° 05' E., 129 lks.

dist. mkd. T 19 S R 6 E S 6 B T.

An aspen, 7 ins. dia., bears S. 6° 55' W., 115 lks.

dist. mkd. T 19 S R 5 E S 1 B T.

A white pine, 18 ins. dia., bears N. 67° 50' W., 222 lks.

dist. mkd. T 18 S R 5 E S 36 B T.

Land, mountainous.

Soil, sandy and gravelly; 2nd and 3rd rate.

Timber, cedar, pinon pine, red pine, white pine, and aspen.

Undergrowth, sage brush, and service berry brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

West bdy.T.19 S.,R.6 E.-Continued.

May 30, 1910.

North Bdy.T.19 S.,R.6 E.

May 31, 1910: At 7 h 57 m a.m., l.m.t., I set off $39^{\circ}12'N.$, on the lat.arc; $21^{\circ}52'N.$, on the decl.arc; and determine a meridian with the solar, at the cor. of Tps. 18 and 19 S., Rs. 6 and 7 E., heretofore described. .

Thence I run

West on a random line along north bdy. of Tp., setting temp. $\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs. and at 478.76 chs. Intersect W. bdy. of Tp., 28 lks. S. of the cor. of Tps. 18 and 19 S., Rs. 5 and 6 E.; the falling answers to a correction of 2 minutes or 5 lks. south per mile. Therefore I run

$S.89^{\circ}58'E.$, on a true line bet. secs. 6 and 31.

Over mountainous land; through scattering timber and dense undergrowth: descending.

- 2.76 Enter heavy timber, bears N. and S.
- 4.76 Leave timber, bears N. and S.
- 23.76 Begin more gradual descent, bears N. and S.
- 38.76 Set an iron post, 3 ft long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 31 in N half and S 6 in S half; dig pits, 18x18x12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 78.76 Bottom of hollow, 350 ft. below Tp. cor., course NE.
Asc.

North bdy. T. 19 S., R. 6 E. - Continued.

Chains

78.76 Set an iron post, 3 ft. long, 3 ins. in dia., 12 ins. in the ground, on solid rock bottom, and surrounded by mound of stone, for cor. of secs. 5, 6, 31, and 32, mkd. on brass cap
 T 18 S S 31 in NW.
 R 6 E S 32 in NE.
 R 6 E S 5 in SE.; and
 T 19 S S 6 in SW. quadrants; from which
 A red pine, 10 ins. dia., bears N. 52° 30' E., 112 lks. dist.; mkd. T 18 S R 6 E S 32 B T.
 A pinon pine, 8 ins. dia., bears S. 48° 30' E., 90 lks. dist.; mkd. T 19 S R 6 E S 5 B T.
 A red pine, 10 ins. dia., bears S. 87° W., 32 lks. dist.; mkd. T 19 S R 6 E S 6 B T.
 A red pine, 30 ins. in dia., bears N. 40° W., 98 lks. dist.; mkd. T 18 S R 6 E S 31 B T.

Land, mountainous .

Soil, sandy and gravelly. 3rd rate.

Timber, cedar, pinon pine, red pine, balsam, and aspen.

Undergrowth, sage brush and service berry.

Good grass for grazing.

Mountainous or heavily timbered land, or. land covered with dense undergrowth, 78.76 chs.

S. 89° 58' E., on a true line bet. secs. 5 and 32.

Over mountainous land; through scattering timber and dense undergrowth.

Asc.

16.60 Top of ridge, 100 ft. above sec. cor., bears NE and SW.

Desc.

35.00 Leave timber, bears N. and S.

North bdy.T.19 S.,R.6 E.-Continued.

Chains

36.00 Begin more gradual descent,bears N.and S.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd. $\frac{1}{2}$ on brass cap $\frac{1}{4}$ S 32 in N half and S 5 in S half;dig pits,18x18x12 ins.E.and W.of post, 3 ft.dist.;and raise a mound of earth, $3\frac{1}{2}$ ft.base, $1\frac{1}{2}$ ft. high,N.of cor.

48.00 Enter bottom of broad hollow,bears N.and S.

49.40 Road,bears N.and S.

50.10 Wash,10 lks.wide,1 ft.deep,in bottom of hollow,course N. Asc.gradually.

80.00 Set an iron post,3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.4,5,32,and 33,mkd.on brass cap

T 18 S S 32 in NW.

R 6 E S 33 in NE.

R 6 E S 4 in SE.;and

T 19 S S 5 in SW.quadrants;dig pits,18x18x12 ins.in

in each sec. $5\frac{1}{2}$ ft.dist.,and raise a mound of earth,4 ft base,2 ft.high,W.of cor.

Land,mountainous .

Soil,sandy and clay loam;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush and service berry.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth

80.00 chs.

May 31,1910:At this cor.I set off $21^{\circ}55'$ N.,on the decl.

arc;and at 11 h 57 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is $39^{\circ}12'$ N.,which is the proper lat,nearly.

North bdy. T. 19 S., R. 6 E. -Continued.

Chains

S. 89° 58' E., on a true line bet. secs. 4 and 33.

Over mountainous land; through dense undergrowth.

Asc. gradually.

7.00 Leave broad hollow, bears N. and S.

Asc.

8.00 Enter heavy timber and leave undergrowth, bears N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 33 in N half and S 4 in S. half; from which

A pinon pine, 16 ins. dia., bears N. 23° E., 76 lks.

dist. mkd. $\frac{1}{4}$ S 33 B T.

A pinon pine, 6 ins. dia., bears S. 34° W., 55 lks.

dist. mkd. $\frac{1}{4}$ S 4 B T.

53.00 Begin abrupt ascent, bears N. and S.

72.40 Top of ridge, 300 ft. above $\frac{1}{4}$ sec. cor. bears N. 30° E. and S. 30° W.

Desc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 14 ins. in the ground, on solid bedrock, and surrounded by mound of stone, for cor. of secs. 3, 4, 33, and 34, mkd. on brass cap

T 18 S S 33 in NW.

R 6 E S 34 in NE.

R 6 E S 3 in SE.; and

T 19 S S 4 in SW. quadrants; from which

A pinon pine, 14 ins. dia., bears N. 64° E., 89 lks.

dist. mkd. T 18 S R 6 E S 34 B T.

A pinon pine, 12 ins. dia., bears S. 59° E., 61 lks.

dist. mkd. T 19 S R 6 E S 3 B T.

A pinon pine, 6 ins. dia., bears S. 2° W., 42 lks.

dist. mkd. T 19 S R 6 E S 4 B T.

A pinon pine, 14 ins. dia., bears N. 60° W. 3 lks.

dist. mkd. T 18 S R 6 E S 33 B T.

Land, mountainous .

North bdy. T.19 S., R.6 E.-Continued.

Chains

Soil, sandy and clay loam and rocky; 2nd and 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

S. 89° 58' E., on a true line bet. secs. 3 and 34.

Over mountainous land; through heavy timber.

Desc.

33.50 Bottom of hollow, 200 ft. below sec. cor., course S.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 34° in N half and S 3° in S half; from which

A pinon pine, 34 ins. in dia., bears N. 3° 30' E., 207 lks. dist. mkd. $\frac{1}{4}$ S 34° B T.

No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

40.25 Top of ridge, 75 ft. above hollow, bears N. and S.

Desc.

62.20 Bottom of hollow, 100 ft. below ridge, course S.

Asc.

70.00 Top of ridge, 100 ft. above hollow, bears N. and S.

Desc.

76.25 Bottom of hollow, 100 ft. below ridge, course S. 20° W.

Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, mkd. on brass cap

T 18 S S 34° in NW.

R 6 E S 35° in NE.

North bdy.T.19 S.,R.6 E.-Continued.

Chains

R 6 E S 2 in SE.;and

T 19 S S 3 in SW.quadrants;from which

A pinon pine,30 ins.dia.,bears S.14°E.,143 lks.

dist..mkd.T 19 S R 6 E S 2 B T.

No other trees within limits;raise a mound of stone,2 ft.base,1½ ft.high,W.of cor.

Land,mountainous .

Soil,sandy and gravelly loam;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

S.89 °58'E.,on a true line bet.secs.2 and 35.

Over mountainous land;through scattering timber and dense undergrowth.

Asc.

2.13 Old road,bears NE and S.20°W.

10.00 Top of flat ridge,30 ft.above sec.cor.,bears N.and S.
Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for ¼ sec.cor..mkd.on brass cap ¼ S 35 in N half and S 2 in S half;from which

A pinon pine,6 ins.dia.,bears N.63°W.,171 lks.

dist..mkd.¼ S 35 B T .

A pinon pine,6 ins.dia.,bears S.55°E.,131 lks.

dist..mkd.¼ S 2 B T.

68.00 Bottom of hollow,200 ft.below ridge,course S.30°W.

Asc.

71.60 Top of spur,100 ft.above hollow,bears NW and SE.

North bdy.T.19 S.,R.6 E.-Continued.

Chains	Desc.
80.00	Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, mkd. on brass cap T 18 S S 35° in NW. R 6 E S 36° in NE. R 6 E S 1° in SE.; and T 19 S S 2° in SW. quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, sandy and gravelly; and clay; 3rd rate. Timber, cedar and pinon pine. Undergrowth, sage brush and service berry. Good grass for grazing. Mountainous land, or land covered with dense undergrowth 80.00 chs.
	S. 89° 58' E., on a true line bet. secs. 1 and 36. Over mountainous land; through dense undergrowth.
	Desc.
.40	Bottom of hollow, 10 ft. below sec. cor., course N. 60° W.
	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor. mkd. on brass cap ¼ S 36° in N half and S 1° in S half; dig pits, 18x18x12 ins., E and W of post, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
56.00	Top of ridge, 200 ft. above hollow, bears N. 20° E. and S. 20° W.
	Desc.
61.80	Bottom of hollow, 100 ft. below ridge, course S. 20° E.
	Asc.
80.00	The cor. of Tps. 18 and 19 S., Rs. 6 and 7 E.

North bdy. T.19 S., R.6 E.-Continued.

Chains

Land, mountainous .
Soil, clay and gravelly ; 3rd rate.
No timber .
Undergrowth, service berry and sage brush .
Good grass for grazing .
Mountainous land, or land covered with dense undergrowth,
80.00 chs.

May 31, 1910.

Boundaries of T.19 S., R.6 E.
Latitudes, departures, and closing errors.

Line designated	Course	Dist- ance	Latitudes				Departures	
			N.	S.	E.	W.		
		chs.	chs.	chs.	chs.	chs.		
W.bdy. T.19 S., R.6 E.	North	480.00	480.00					
N.bdy. T.19 S., R.6 E.	S. 89° 58' E.	478.76			.28	478.76		
E.bdy. T.19 S., R.6 E.	South	480.00		480.00				
S.bdy. T.19 S., R.6 E.	West	479.41					479.41	
Convergency					.59			
Totals			480.00	480.28	479.35	479.41		
Error in lat.				480.00		479.35		
				.28				
Error in dep.								.06

GENERAL DESCRIPTION.

For general description see notes of subdivision of Town-
ship.

Clarence S. Jarvis
U.S. Deputy Surveyor.

May 31, 1910.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____
 _____, United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of _____

giving the respective capacities in which they acted:

~~list of names and final oath of assistants see book "D"~~ _____, *Chainman.*
 T. 19 S., R. 5 E. _____, *Chainman.*
 _____, *Moundman.*
 _____, *Moundman.*
 _____, *Arman.*
 _____, *Arman.*
 _____, *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____
 _____, United States Deputy Surveyor, in surveying all
 the parts or portions of the _____

_____ of the _____
 _____ meridian, _____ of _____, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 other monuments established, according to the instructions furnished by the United States Surveyor
 General for _____

_____, *Chainman.*
 _____, *Chainman.*
 _____, *Moundman.*
 _____, *Moundman.*
 _____, *Arman.*
 _____, *Arman.*
 _____, *Flagman.*

described and sworn to before me this _____ }
 day of _____, 19 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 19____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

~~For final oath of deputy see book "D" T. 19 S., R. 5 E.~~

_____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 19____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, _____ April 3, _____, 1911

The foregoing field notes of the survey of East, South, West, and North Bounda-
ries of Township No. 19 South, Range No. 6 East of the Salt Lake Base
and Meridian, Utah,

executed by _____ Clarence S. Jarvis
under his contract No. 315 _____, dated _____ November 1, _____, 19 09 having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell

United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-362

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 19 South, Range No. 6 East,

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Clarence S. Jarvis, United States Deputy Surveyor,

under his Contract No. 315, dated November 1, 1909

Survey commenced June 1, 1910, 1910

Survey completed June 11, 1910, 1910

59-32-56

NAMES AND DUTIES OF ASSISTANTS.

Quinby Stewart

Chairman

Karl Keeler

Chairman

Verne Nelson

Chairman

James Ollerton

Moundman

Morrille George

Moundman

Milton Fletcher

Axman

Earl Spafford

Axman

Raymond Nelson

Flagman

BOOK A-362

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE Quincy Stewart, Karl Keeler, and Verne Nelson
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the Subdivisions of T. 19 S. R. 6 E; and T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah.

Quincy Stewart, Chainman.

Karl Keeler, Chainman.

Subscribed and sworn to before me this 24 Verne Nelson Chainman.

day of May, 1910



Livi M. Harmon

Notary Public

WE, James Allerton and Morrille George
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Subdivisions of T. 19 S. R. 6 E. and T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah

James Allerton, Moundman.

Morrille George, Moundman.

Subscribed and sworn to before me this 24

day of May, 1910



Livi M. Harmon

Notary Public

WE, Milton Fletcher and Earl Spafford
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Subdivisions of T. 19 S. R. 6 E; and T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah

Milton Fletcher, Axman.

Earl Spafford, Axman.

Subscribed and sworn to before me this 24

day of May, 1910



Livi M. Harmon

Notary Public

I, Raymond Nelson, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Subdivisions of T. 19 S. R. 6 E; and T. 19 S. R. 5 E. of Salt Lake Base and Meridian, Utah.

Raymond Nelson, Flagman.

Subscribed and sworn to before me this 24

day of May, 1910



Livi M. Harmon

Notary Public

My commission expires Aug. 7, 1911.

Subdivision of T.19 S., R.6 E.-

Survey commenced June 1, 1910, and executed with a Bausch, Lomb, and Saegmuller transit, No. 8375, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to thirty seconds of arc; while one minute is the least count of the declination and latitude arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on April 27, 1910.

At the cor. of secs. 1, 2, 35, and 36, on S. bdy. of Tp., latitude $39^{\circ}06'55''$ N., longitude $111^{\circ}14'46''$ W., At 2 h 55 m a.m., l.m. t., I observe Polaris at eastern elongation in accordance with the manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

At 7 h 30 m a.m., l.m. t., I lay off the azimuth of Polaris $1^{\circ}30.6'$ to the west, and mark a point in the meridian thus determined, by cutting a small groove in a stone firmly set in the ground, 5.00 chs. N. of the cor.

At 7 h 55 m a.m., l.m. t., I set off $39^{\circ}07'$ N., on the lat. arc; $22^{\circ}00'$ N., on the decl. arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.33 ins. east of the meridian determined by Polaris observation therefore I conclude that the adjustments of the instrument are satisfactory.

Note: For complete test of instrument see notes of East bdy. of Tp.

From the cor. of secs. 1, 2, 35, and 36, on S. bdy. of Tp., heretofore described.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

I run

N.0°1'W., bet. secs. 35 and 36.

Over rolling plateau; through heavy timber .

Asc. gently.

1.00 Bottom of Gully, 60 lks. wide, 40 ft. deep, course S.30°W.

Continue gradual ascent.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 35 in W half and S 36 in E half; from which

A pinon pine, 40 ins. dia., bears S.48°E., 33 lks. dist. mkd. $\frac{1}{4}$ S 36 B T.

A mahogany 8 ins. dia., bears N.85°30'W., 125 lks. dist. mkd. $\frac{1}{4}$ S 35 B T.

43.00 Leave timber and enter dense undergrowth, bears E and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, mkd. on brass cap

T 19 S S 26 in NW.

R 6 E S 25 in NE.

S 36 in SE.; and

S 35 in SW. quadrants; and dig pits, 18x18x12 ins.

in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor.

Land, rolling plateau.

Soil, sandy loam; 2nd rate.

Timber, cedar, pinon pine, and yellow pine.

Undergrowth, sage brush.

Good grass for grazing.

Heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

— —

East, on a random line bet. secs. 25 and 36.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
55.03	Edge of plateau, impossible to chain farther. Set temp. witness point. Thence offset North 11.00 chs. Thence on offset line East 24.99 chs. making
80.02	Intersect E. bdy. of Tp., 5 lks. N. of the witness cor. to cor. of secs. 25, 30, 31, and 36, heretofore described, which is 11.00 chs. North, of the regular cor. point. Thence I run N. 89° 58' W., on offset line bet. secs. 25 and 36. Over plateau; through heavy timber . Asc.
8.00	Top of ridge, 50 ft. above witness cor., bears N. and S. Desc.
10.00	Leave timber, and enter dense sage brush, bears N. and S.
24.99	Offset South 11.00 chs. to true line. Edge of plateau, bears N. 60° E. and S. 30° W. Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness point, mkd. on brass cap. W P in N half; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Thence N. 89° 58' W., on true line bet. secs. 25 and 36. Desc. through dense undergrowth.
38.50	Enter heavy timber, bears NW and SE.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 25 in N half and S 36 in S half; from which A mahogany 6 ins. dia., bears N. 48° 30' E., 81 lks. dist. mkd. $\frac{1}{4}$ S 25 B T. A pinon pine, 8 ins. dia., bears S. 71° E., 54 lks. dist. mkd. $\frac{1}{4}$ S 36 B T.
52.50	Bottom of hollow, 50 ft. below $\frac{1}{4}$ sec. cor., course NW. Asc.
55.00	Leave timber, and enter dense sage brush, bears NW and SE.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 80.02 The cor. of secs. 25, 26, 35, and 36.
 Land, rolling plateau.
 Soil, sandy loam; 2nd rate.
 Timber, cedar, pinon pine, red pine, and yellow pine.
 Undergrowth, sage brush.
 Good grass for grazing.
 Heavily timbered land, or land covered with dense undergrowth, 80.02 chs.
-
- N. 0° 1' W., bet. secs. 25 and 26.
 Over rolling plateau; through dense sage brush.
 Desc.
- 26.00 Bottom of swale, 25 ft. below sec. cor., course NW.
 Asc. gentle slope.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 26 in W half and S 25 in E half; dig pits, 18x18x12 ins. N. and S. of post, 3 ft. dist; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 50.00 Bottom of same swale, course NE.
 Asc. gently.
- 79.50 Enter scattering timber, bears E. and W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, mkd. on brass cap
 T 19 S S 23 in NW.
 R 6 E S 24 in NE.
 S 25 in SE.; and
 S 26 in SW quadrants; from which
 A pinon pine, 5 ins. dia., bears N. 35° 25' E., 41 lks.
 dist.. mkd. T 19 S R 6 E S 24 B T.
 A pinon pine, 6 ins. dia., bears S. 3° 50' E., 58 lks.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	<p>dist.mkd.T 19 S R 6 E S 25[✓] D T.</p> <p>A dead pinon pine, 6 ins.dia., bears S.41°45'W., 47 lks.dist..mkd.T 19 S R 6 E S 26[✓] D T.</p> <p>A pinon pine, 24 ins.dia., bears N.12°40'W., 116 lks.dist.mkd.T 19 S R 6 E S 23[✓] D T.</p> <p>Land, rolling plateau.</p> <p>Soil, sandy loam; 2nd rate.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Land covered with dense undergrowth, 80.00 chs.</p> <p>June 1, 1910: At this cor. I set off 22°01'N., on the decl. arc; and 11 h 57 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 39°09'N., which is the proper lat. nearly.</p> <p>— — —</p> <p>S. 89°58'E., on a random line bet. secs. 24 and 25.</p> <p>40.00 set temp. $\frac{1}{4}$ sec. cor.</p> <p>64.25 Edge of impassible canon</p> <p>set temp. witness cor.</p> <p>Thence offset north 22.71 chs.</p> <p>Thence on offset line S. 89°58'E., 15.81 chs. which makes</p> <p>80.06 intersect E. bdy. of Tp. 7 lks. N. of the witness cor. to cor. of secs. 19, 24, 25, and 30, heretofore described, which is 22.71 chs. north of the regular cor. point.</p> <p>thence I run</p> <p>N. 89°55'W., on offset line bet. secs. 24 and 25.</p> <p>over mountainous land; through scattering timber.</p> <p>Desc.</p> <p>9.00 Canon, 200 ft. below witness cor., course NE.</p>
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Subdivision of T.19 S., R.6 E.-Continued.

Chains Asc.

15.81 Offset South 22.71 chs.to point on true line on top of ridge, which bears NE and SW.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 19, 24, 25, and 30, mkd. on brass cap

T 19 S in N half.

R 6 E S 24 in NW.

W C R 7 E S 19 in NE.

S 30 in SE.; and

S 25 in SW. quadrants; from which

A balsam, 5 ins. dia., bears N. 42° E., 32 lks.

dist. mkd. W C T 19 S R 7 E S 24 B T.

A yellow pine, 14 ins. dia., bears S. 40° E., 9 lks.

dist. mkd. T 19 S R 7 E S 25 B T.

No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Thence N. 89° 55' W., on true line bet. secs. 24 and 25.

Over mountainous land; through scattering timber.

Desc.

31.60 Bottom of canon, 300 ft. below ridge, course NE.

Asc. over ledges.

37.25 Top of ascent, 300 ft. above canon, bears NE and SW.

Thence over plateau.

Leave ledges, bears NE and SW.

A small spring bears S 45° W., about 5.00 chs. dist.

Asc. gradually.

40.03 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of earth and stone, for ¼ sec. cor. mkd. on brass cap ¼ S 24 in N half and S 25 in S half; from which

A pinon pine, 30 ins. dia., bears N. 49° W., 86 lks.

dist. mkd. ¼ S 24 B T.

A mahogany, 10 ins. dia., bears S. 18° E., 23 lks.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	dist..mkd. $\frac{1}{4}$ S 25 B T.
45.00	Leave timber and enter dense sage brush, bears NE and SW.
50.00	An old corral bears South about 5.00 chs.dist.
55.00	An old cabin bears South about 5.00 chs.dist.
80.06	The cor.of secs.23,24,25,and 26.
	Land,mountainous and nearly level plateau.
	Soil,sandy loam;2nd rate.
	Timber,cedar,pinon pine,and yellow pine.
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,80.06 chs.
	<hr/>
	N.0°1'W.,bet.secs.23 and 24.
	Over rolling plateau;through scattering timber and dense undergrowth.
	Asc.
3.75	Top of ridge,100 ft.above cor.,bears E.and W.
	Desc.
28.25	Bottom of hollow,100 ft.below ridge,course S.70°E.
	Asc.
34.00	Top of ridge,40 ft.above hollow,bears N.70°W.and S.70°E
	Desc.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 23 $\frac{1}{2}$ in W half and S 24 $\frac{1}{2}$ in E half;from which
	A yellow pine,30 ins.dia.,bears S.75°W.,23 lks.
	dist..mkd. $\frac{1}{4}$ S 23 $\frac{1}{2}$ B.T.
	No other trees within limits;raise a mound of stone,2 ft.base,1 $\frac{1}{2}$ ft.high,W.of cor.
42.50	Bottom of hollow,30 ft.below ridge,course S.60°E.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	Asc.
68.50	Top of ridge, 200 ft. above hollow, bears NE and SW.
	Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, mkd. on brass cap
	T 19 S S 14 [✓] in NW.
	R 6 E S 13 [✓] in NE.
	S 24 in SE [✓] ; and
	S 23 in SW [✓] quadrants; from which
	A pinon pine, 10 ins. dia., bears S. 46° E., 158 lks.
	dist. mkd. T 19 S R 6 E S 24 B T.
	No other trees within limits; dig pits, 18x18x12 ins. in each sec. 5 $\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 [✓] ft. base, 2 ft. high, W. of cor.
	Land, rolling plateau.
	Soil, clay and sandy loam; 2nd rate.
	Timber, cedar and pinon pine, and magogany.
	Undergrowth, sage brush.
	Good grass for grazing.
	Land covered with dense undergrowth, 80.00 chs.
	<hr/>
	S. 89° 55' E., on a random line bet. secs. 13 and 24.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
69.36	Edge of impassible canon.
	Set temp. witness cor.
	Thence offset North 8.67 chs.
	Thence on offset S. 89° 55' E., 10.79 chs. which makes
80.10	Intersect E. bdy. of Tp., 12 lks. South of the witness cor. to cor. of secs. 13, 18, 19, and 24, heretofore described, which is 10.79 chs. North of the regular cor. point.
	Thence I run
	West, on offset line bet. secs. 13 and 24.

Subdivision of T.19.S., R.6 E.-Continued.

Chains	Along plateau; through dense undergrowth and scattering timber.
	Asc.
10.79	Offset South 8.67 chs. to true line on edge of plateau, which bears NE and S.20°W. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 13, 18, 19, and 24, mkd. on brass cap T 19 S in N half. R 6 E S 13 in NW. W C R 7 E S 18 in NE. S 19 in SE.; and S 24 in SW. quadrants; from which A mahogany, 8 ins. dia., bears N.47°E., 95 lks. dist..mkd. W C T 19 S R 7 E S 13 B T. A mahogany, 8 ins. dia., bears S.72°E., 10 lks. dist..mkd. W C T 19 S R 7 E S 24 B T. A mahogany, 4 ins. dia., bears S.10°W., 23 lks. dist..mkd. W C T 19 S R 6 E S 24 B T. A mahogany 4, ins. dia., bears N.87°W., 54 lks. dist..mkd. W C T 19 S R 6 E S 13 B T. Thence West, on true line bet. secs. 13 and 24. Over plateau; through scattering timber and dense undergrowth. Asc. gently.
40.05	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 13 ^v in N half and S 24 ^v in S half; from which A mahogany, 5 ins. dia., bears N.16°E., 67 lks. dist..mkd. $\frac{1}{4}$ S 13 ^v B. T. A mahogany, 5 ins. dia., bears S.27°W., 189 lks. dist..mkd. $\frac{1}{4}$ S 24 ^v B T.
59.00	Bottom of swale, 25 ft. below $\frac{1}{4}$ sec. cor., course N.10°W. Asc.
69.65	Top of ridge, 100 ft. above swale, bears NE and SW. and

Subdivision of T.19 S., R.6 E.-Continued.

Chains

S.60°E.

Desc.

80.10 The cor.of secs.13,14,23,and 24.

Land,rolling plateau.

Soil,sandy loam;2nd rate.

Timber,cedar and pinon pine and mahogany.

Undergrowth,sage brush.

Good grass for grazing.

Land covered with dense undergrowth,80.10 chs.

June 1,1910.

June 2,1910:At 7 h 58 m a.m.,l.m.t.,I set off 39°10'N., on the lat.arc;22°09'N.,on the decl.arc;and determine a meridian with the solar,at the cor.of secs.13,14,23,and 24.

Thence I run

N.0°1'W.,bet.secs.13 and 14.

Over rolling plateau;through dense undergrowth.

Desc.

31.00 Bottom of hollow,200 ft.below sec.cor.,course SE.

Asc.

35.00 Enter scattering timber,bears E.and W.

39.50 Top of ridge,200 ft.above hollow,bears NW and SE.

Desc.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 14 in W half and S 13 in E half;from which

A pinon pine,12 ins.dia.,bears S.30°E.,90 lks.
dist..mkd. $\frac{1}{2}$ S 13 B T.

A pinon pine,14 ins.dia.,bears S.35°10'W.,144

Subdivision of T.19 S., R.6 E.-Continued.

Chains

lks.dist..mkd. $\frac{1}{2}$ S 14 B T.

79.00 Enter heavy timber, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 11, 12, 13, and 14, mkd. on brass cap T. 19 S S 11 in NW.

R 6 E S 12 in NE.

S 13 in SE.; and

S 14 in SW. quadrants; from which

A yellow pine, 16 ins. dia., bears N. 23° 40' E. 98 lks.

dist..mkd. T. 19 S R 6 E S 12 B T.

A yellow pine, 10 ins. dia., bears S. 77° 10' E., 222

lks. dist..mkd. T. 19 S R 6 E S 13 B T.

A pinon pine, 18 ins. dia., bears S. 27° 10' W., 118 lks.

dist..mkd. T. 19 S R 6 E S 14 B T.

A yellow, pine, 5 ins. dia., bears N. 17° 25' W., 47 lks.

dist..mkd. T. 19 S R 6 E S 11 B T.

Land, rolling plateau.

Soil, sandy loam; 2nd rate.

Timber, cedar, pinon pine, and yellow pine.

Undergrowth, sage brush.

Good grass for grazing.

Heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

Note: Knowing from the running of the east bdy. of the township that this line cannot be run east to an intersection with the East bdy. I run

East, on a true line bet. secs. 12 and 13.

Over rolling plateau; through scattering timber, and dense undergrowth.

Desc. gently.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 36.90 Edge of plateau, bears NW and SW.
 It is impossible to chain or triangulate farther on this line, therefore
 Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., mkd. on brass cap T 19 S R 6 E W C $\frac{1}{4}$ S 12[✓] in N half and S 13[✓] in S half; from which
 A yellow pine, 36 ins. in dia., bears N. 46° W., 52 lks.
 dist. mkd. W O $\frac{1}{4}$ S 12[✓] B T.
 A yellow pine, 36 ins. dia., bears S. 46° W., 31 lks.
 dist. mkd. W C $\frac{1}{4}$ S 13[✓] B T.
 I abandon the line at this point.
 Land, rolling plateau.
 Soil, sandy loam; 2nd rate.
 Timber, cedar and pinon pine and yellow pine.
 Undergrowth, sage brush.
 Good grass for grazing.
 Land covered with dense undergrowth, 36.90 chs.
-
- N. 0° 1' W., bet. secs. 11 and 12.
 Over rolling plateau; through heavy timber.
 Desc. gradually.
- 17.85 Bottom of hollow, 200 ft. below sec. cor., course NE.
 Asc.
- 27.00 Top of ridge, 200 ft. above hollow, bears NE. and SW.
 Desc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 11[✓] in W half and S 12[✓] in E half; from which
 A yellow pine, 24 ins. in dia., bears S. 16° E., 215 lks. dist. mkd. $\frac{1}{4}$ S 12[✓] B T.
 A yellow pine, 36 ins. dia., bears S. 18° 20' W., 133

Subdivision of T.19 S., R.6 E.-Continued.

Chains	lks.dist..mkd. $\frac{1}{4}$ S 11 [✓] B T.
41.00	Leave plateau, bears E. and W. Desc. abruptly over ledges.
65.00	Bottom of Rock Canon, 1200 ft. below $\frac{1}{4}$ sec. cor., course S. 80°E. Asc. abruptly over ledges.
80.00	Point for cor. falls on smooth ledge where cor. cannot be perpetuated therefore I mark a cross on the ledge at the exact point for cor. of secs. 1, 2, 11, and 12, and measure on to a safe place for the cor.
83.50	Top of ascent, edge of plateau, 1200 ft. above canon, bears E. and W. Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 1, 2, 11, and 12, mkd. on brass cap T 19 S S 2 [✓] in NW. W C R 6 E S 1 [✓] in NE. S 12 in SE.; and S 11 in SW quadrants; from which A pinon pine, 10 ins. dia., bears N. 14°30'E., 15 lks. dist..mkd. W C T 19 S R 6 E S 1 [✓] B T. A pinon pine, 30 ins. dia., bears S. 15°30'E., 50 lks. dist..mkd. W C T 19 S R 6 E S 1 [✓] B T. A yellow pine, 36 ins. dia., bears S. 83°W., 94 lks. dist..mkd. W C T 19 S R 6 E S 2 [✓] B T. A pinon pine, 14 ins. dia., bears N. 68°15'W., 104 lks. dist..mkd. T 19 S R 6 E S 2 [✓] B T. Land, mountainous and rolling. Soil, sandy loam and rocky; 2nd and 4th rate. Timber, cedar, pinon pine, and yellow pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs. June 2, 1910: At this cor. I set off 22°10' [✓] N., on the decl. arc; and at 11 h 58 m a.m., l.m.t., I observe the sun on

Subdivision of T.19 S., R.6 E.-Continued.

Chains

the meridian the resulting lat. is $39^{\circ}11'N$, which is the proper lat. nearly.

Begin at the point for cor. of secs. 1, 2, 11, and 12, which is a cross on a ledge 3.50 chs. $S.0^{\circ}1'E$, from the witness cor.

Thence I run

East, on a random line bet. secs. 1 and 12.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

60.80 Edge of Rock Canon, impossible to chain farther, therefore Set temp. witness cor.

Thence offset North 17.95 chs.

Thence on offset line East 19.24 chs. which makes

80.04 Intersect E. bdy. of Tp., at the witness cor. to cor. of secs. 1, 6, 7, and 12, heretofore described, which is 17.95 chs. North of the regular cor. point.

Thence I run

West, on true offset line bet. secs. 1 and 12.

Over rolling plateau; through scattering timber and dense undergrowth.

Desc. gently.

19.24 Offset South 17.95 chs. to the true line, at edge of Rock Canon, bears NE and SW.

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for witness cor. to cor. of secs. 1, 6, 7, and 12, mkd. on brass cap

T 19 S in N half.

R 6 E S 1 in NW.

W C R 7 E S 6 in NE.

S 7 in SE.; and

S 12 in SW quadrants; from which

Subdivision of T.19 S., R.6 E.-Continued.

Chains

A pinon pine, 30 ins. dia., bears N. 40° E., 150 lks.
dist..mkd. W C T 19 S R 7 E S 1¹ B T.

A yellow pine, 30 ins. dia., bears S. 5° E., 76 lks.
dist..mkd. W C T 19 S R 7 E S 12¹ B T.

A cedar, 14 ins. dia., bears S. 63° W., 17 lks.
dist..mkd. W C T 19 S R 6 E S 12 B T.

A mahogany, 6 ins. dia., bears N. 50° W., 50 lks.
dist..mkd. W C T 19 S R 6 E S 1 B T.

Thence West, on true line bet. secs. 1 and 12.

Over rolling plateau; through heavy timber.

Desc. gradually.

40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 1¹ in N half
and S 12¹ in S half; from which

A yellow pine, 10 ins. dia., bears N. 66° E., 72 lks.
dist..mkd. $\frac{1}{4}$ S 1¹ B T.

A yellow pine, 12 ins. dia., bears S. 27° E., 80 lks.
dist..mkd. $\frac{1}{4}$ S 12¹ B T.

43.00 Leave plateau, bears N. 80° W. and S. 80° E.

Desc. abruptly over ledges.

45.00 Bottom of hollow, 100 ft. below plateau, course S.

Asc. along steep side hill over ledges.

80.04 The cor. of secs. 1, 2, 11, and 12.

Land, mountainous and rolling plateau.

Soil, sandy loam and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine, and yellow pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.04 chs.

From the cross on ledge for point for cor. of secs. 1, 2, 11,

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- and 12, which is 3.50 chs. S. 0° 1' E. from the witness cor.
I run
N. 0° 1' W., on a random line bet. secs. 1 and 2.
3.50 Witness cor. to cor. of secs. 1, 2, 11 and 12.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.97 Intersect N. bdy. of Tp., 5 lks. East of the corner of
secs. 1, 2, 35, and 36, heretofore, described.
Thence I run
S. 0° 3' E., on a true line bet. secs. 1 and 2.
Over mountainous land; through dense undergrowth.
Asc.
7.60 Top of ridge, 100 ft. above sec. cor., bears E. and W.
Desc.
39.97 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 2° in W half
and S 1° in E half; dig pits, 18x18x12 ins., N. and S. of
Post, $3\frac{1}{2}$ ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high, W. of cor.
61.00 Wash, 10 lks. wide, 3 ft. deep, in bottom of hollow, 150 ft. be-
low ridge, course S. 60° W. Enter heavy timber, bears E. and W.
Thence over rolling plateau.
76.47 The witness cor. to cor. of secs. 1, 2, 11, and 12,
Leave plateau, bears E. and W.
Desc. abruptly over ledges.
79.97 The point for cor. of secs. 1, 2, 11, and 12.
Land, mountainous and rolling.
Soil, sandy loam and rocky; 2nd and 4th rate.
Timber, cedar and pinon pine, and yellow pine.
undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered
with dense undergrowth, 79.97 chs.

June 2, 1910.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	<p>June 3, 1910: At 7 h 58 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat. arc; $22^{\circ}16'N.$, on the decl. arc; and determine a meridian with the solar ^{point}, at ^{point} for cor. of secs. 2, 3, 34, and 35, on S. bdy. of Tp., heretofore described.</p> <p>Thence I run</p> <p>$N.0^{\circ}1'W.$, bet. secs. 34 and 35.</p> <p>Over mountainous land; through scattering timber and scattering undergrowth.</p> <p>Asc. over ledges.</p>
12.00	<p>Top of rocky ridge, 300 ft. above sec. cor., bears NE and SW.</p> <p>Desc. abruptly over ledges.</p>
35.00	<p>Bottom of hollow, 350 ft. below ridge, course $S.80^{\circ}W.$</p> <p>Asc. over ledges.</p>
40.00	<p>Point for $\frac{1}{4}$ sec. cor. falls in ledges where it will be impossible to perpetuate the cor.; therefore at the exact point for $\frac{1}{4}$ sec. cor. I make a cross on a sandstone ledge $8 \times 10 \times 7$ ft. and continue to a suitable place to set the cor.</p>
52.05	<p>Top of ascent, leave ledges, bears NW and SE.</p> <p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness cor. to $\frac{1}{4}$ sec. cor., mkd. on brass cap T 19 S R 6 E in N half; W C $\frac{1}{4}$ S 34 in W half; and S 35 in E half; from which</p> <p style="padding-left: 40px;">A pinon pine, 10 ins. dia., bears $N.87^{\circ}E.$, 23 lks. dist.. mkd. W C $\frac{1}{4}$ S 35 B T.</p> <p style="padding-left: 40px;">A pinon pine, 16 ins. dia., bears $S.31^{\circ}45'W.$, 42 lks. dist.. mkd. W C $\frac{1}{4}$ S 34 B T.</p>
60.00	<p>Thence over rolling plateau through heavy timber.</p>
60.00	<p>Leave heavy and enter scattering timber, bears E. and W.</p>
69.00	<p>Leave plateau, bears NE and SW.</p> <p>Desc.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the</p>

Subdivision of T.19 S., R.6 E.-Continued.

Chains

ground, on solid rock bottom, and surrounded by mound of stone, for cor. of secs. 26, 27, 34, and 35, mkd. on brass cap

T 19 S S 27[✓] in NW.

R 6 E S 26[✓] in NE.

S 35[✓] in SE.; and

S 34[✓] in SW quadrants; from which

A red pine, 24 ins. dia., bears N. 78° E., 85 lks.

dist..mkd. T 19 S R 6 E S 26[✓] B T.

A cedar, 6 ins. dia., bears S. 16° E., 46 lks.

dist..mkd. T 19 S R 6 E S 35[✓] B T.

A red pine, 6 ins. dia., bears S. 5° 15' W., 77 lks.

dist..mkd. T 19 S R 6 E S 34[✓] B T.

A red pine, 6 ins. dia., bears N. 16° 30' W., 39 lks.

dist..mkd. T 19 S R 6 E S 27[✓] B T.

Land, mountainous and rolling plateau.

Soil, sandy loam, and rocky; 2nd and 4th rate.

Timber, cedar, pinon pine, and red pine, and yellow pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

East, on a random line bet. secs. 26 and 35.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line, at the cor. of secs. 25, 26, 35, and 36.

Thence I run

West, on a true line bet. secs. 26 and 35.

Over rolling plateau; through dense undergrowth.

Asc. gently.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S. 26[✓] in N. half

Subdivision of T.19 S., R.6 E.-Continued.

Chains	and S 35° in S half; dig pits, 18x18x12 ins. E. and W. of post. and raise a mound of earth, 3½ ft. base, 1½ ft. high, N. of cor.
64.00	Enter heavy timber, bears NW and SE.
72.00	Leave plateau, bears N. 30° E. and S. 30° W. Desc. over sandstone ledges and boulders.
80.00	The cor. of secs. 26, 27, 34, and 35. Land, mountainous and rolling plateau. Soil, sandy loam and rocky; 2nd and 4th rate. Timber, cedar, pinon pine, and yellow pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	N. 0° 1' W., bet. secs. 26 and 27. Over mountainous land; through heavy timber. Desc.
1.00	Bottom of canon, 300 ft. below sec. cor., course SW. Asc. over ledges.
5.00	Top of steep ascent, 100 ft. above canon, bears E. and W. Leave ledges, bears E. and W. Thence Over plateau; through undergrowth. Asc. gently.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for ¼ sec. cor., mkd. on brass cap ¼ S 27° in W half and S 26° in E half; from which A pinon pine, 20 ins. dia., bears S. 3° 30' E., 111 lks. dist.. mkd. ¼ S 26° B T. A pinon pine, 20 ins. dia., bears S. 81° W., 50 lks. dist.. mkd. ¼ S 27° B T.
43.00	Top of ridge, 50 ft. above ¼ sec. cor., bears NE and SW. Desc.
48.00	Head of swale, 20 ft. below ridge, course S. 60° W.

Subdivision of T. 19 S., R. 6 E.-Continued.

Chains

Asc.

56.00 Top of ridge, 40 ft. above scale, bears E. and W.

Leave timber, bears E. and W.

Desc.

74.00 Bottom of hollow, 80 ft. below ridge, courses W.

Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, mkd. on brass cap
T 19 S 3 22' in NW.

R 6 E 3 23' in NE.

S 26' in SE.; and

S 27' in SW. quadrants; from which

A pinon pine, 6 ins. dia., bears S. 28° E., 112 lks.

dist.. mkd. T 19 S., R. 6 E S. 26' B T.

No other trees within limits; and raise a mound of stone,
2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous and rolling plateau.

Soil, sandy loam and rocky; 2nd and 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered
with dense undergrowth, 80.00 cha.June 3, 1910: At this cor. I set off 22° 17' N., on the decl.
arc; and at 11 h 58 m a.m., l.m.t., I observe the sun on
the meridian, the resulting lat. is 39° 00' N., which is
the proper lat. nearly.

East, on a random line bet. secs. 23 and 24.

40.00 Set temp. ½ sec. cor.

80.10 Intersect E. and S. line, 5 lks. N. of the cor. of secs. 23, 24,
25, and 26.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Thence I run
20.00	N.89°58'W., on a true line bet.secs.23 and 26.
22.00	Over rolling plateau; through scattering timber and dense undergrowth.
	Asc.gradually.
40.05	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 23 in N half and S 26 in S half; from which
	A pinon pine, 30 ins.dia., bears N.15°20'E., 251 lks.
	Dist..mkd.. $\frac{1}{4}$ S 23 B T.
	No other trees within limits; and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high, N.of cor.
47.00	Top of ridge, 50 ft.above sec.cor., bears N.and S.
	Desc.
80.10	The cor.of secs.22, 23, 26, and 27.
	Land, rolling plateau.
	Soil, sandy ; 2nd rate.
	Timber, cedar, pinon pine, and mahogany.
	Undergrowth, sage brush and service berry.
	Good grass for grazing.
	land covered with dense undergrowth, 80.10 chs.
	N.0°11'W., bet.secs.22 and 23.
	Over rolling plateau; through scattering timber and dense undergrowth.
	Desc.
5.00	Leave timber, bears E.and W.
20.90	Old fence, bears E.and W.
36.00	Broad swale, 100 ft.below sec.cor., course S.30°W.
	Asc.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the

Subdivision of T.19 S., R.6 E.-Continued.

Chains

ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S. 22 $\frac{1}{2}$ in W half and S 23 $\frac{1}{2}$ in E half; dig pits, 18x18x12 ins., N. and S. of post, 3 ft. dist.; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

64.00 Top of ridge, 150 ft. above swale, bears E. and W.

Enter heavy timber, bears NE and SW.

Desc. gradually.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, mkd. on brass cap

T 19 S S 15 $\frac{1}{2}$ in NW.

R 6 E S 14 $\frac{1}{2}$ in NE.

S 23 $\frac{1}{2}$ in SE.; and

S 22 $\frac{1}{2}$ in SW. quadrants; from which

A cedar, 24 ins. dia., bears N. 64°15'E., 116 lks.

dist..mkd. T 19 S R 6 E S 14 $\frac{1}{2}$ B T.

A mahogany, 10 ins. dia., bears S. 9°10'E., 139 lks

dist..mkd. T 19 S R 6 E S 23 $\frac{1}{2}$ B T.

A mahogany, 6 ins. dia., bears S. 28°W., 158 lks.

dist..mkd. T 19 S R 6 E S 22 $\frac{1}{2}$ B T.

A mahogany 6 ins. dia., bears N. 28°30'W., 88 lks.

dist..mkd. T 19 S R 6 E S 15 $\frac{1}{2}$ B T.

Land, rolling plateau.

Soil, sandy loam; 2nd rate.

Timber, cedar, pinon pine, and mahogany.

Undergrowth, sage and service berry brush.

Good grass for grazing.

Heavily timbered land, or land covered with dense under $\frac{1}{2}$ growth, 80.00 chs.

S. 89°58'E., on a random line bet. secs. 14 and 23.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 80.20 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 13, 14, 23, and 24.
 Thence I run
 N. $89^{\circ}54'$ W., on a true line bet. secs. 14 and 23.
 Over rolling plateau. Through scattering timber and dense undergrowth.
 Desc.
- 5.00 Bottom of hollow, 25 ft. below sec. cor., course N.
 Asc.
- 15.00 Top of ridge, 200 ft. above hollow, bears N. and S.
 Desc.
- 38.00 Bottom of hollow, 150 ft. below ridge, course N. 10° E.
 Asc.
- 40.10 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S $14'$ in N half and S $23'$ in S half; dig pits, 18x18x12 ins. E and W of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 60.00 Top of ridge, 200 ft. above hollow, bears N. and S.
 Desc.
- 80.20 The cor. of secs. 14, 15, 22, and 23.
 Land, rolling plateau.
 Soil, sandy and clay loam; 2nd rate.
 Timber, cedar, pinon pine, and mahogany.
 Undergrowth, sage brush and service berry.
 Good grass for grazing.
 Land covered with dense undergrowth, 80.20 chs.

June 3, 1910.

June 14, 1910. At 7 h 58 m a.m., l.m.t., I set off $39^{\circ}10'$ N., on the lat. arc; $22^{\circ}24'$ N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 14, 15, 22, and

Subdivision of T.19 S., R.6 E.-Continued.

Chains

23.

Thence I run

N.0°1'W., bet.secs.14 and 15.

Over rolling plateau;through heavy timber and dense undergrowth.

Desc.gradually.

5.00 Bottom of swale,20 ft.below sec.cor.,course W.

Asc.

36.00 Top of ridge,30 ft.above swale,bears NW and SE.

Leave timber,bears NW and SE.

40.00 Set an iron post,3ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 15° in W half and S 14° in E half;and raise a mound of stone,2 ft.base and $1\frac{1}{2}$ ft.high,W.of cor..

70.00 Bottom of swale,100 ft.below ridge,course NW.

Asc.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.10,11,14,and 15,mkd.on brass cap

T 19 S S 10° in NW.

R 6 E S 11° in NE.

S 14 in SE.;and

S 15 in SW.quadrants;from which

A pinon pine,24 ins.dia.,bears N.2°10'E.,326 lks.
dist..mkd.T 19 S R 6 E S 11° B.T.

A pinon pine,12 ins.dia.,bears S.85°E.,536 lks.
dist..mkd.T 19 S R 6 E S 14° B.T.

A pinon pine,10 ins.dia.,bears S.74°40'W.,147 lks.
dist..mkd.T 19 S R 6 E S 15° B.T.

A pinon pine,22 ins.dia.,bears N.89°45'W.,153 lks.
dist..mkd.T 19 S R 6 E S 10° B.T.

Land,molling plateau.

Soil,sandy and clay loam;2nd rate.

Timber,cedar and pinon pine.

Undergrowth,sage brush.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Good grass for grazing.
	Heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	<hr/>
	S.89°54'E., on a random line bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.14	Intersect N. and S. line, 9 lks. S. of the cor. of secs. 11, 12, 13, and 14.
	Thence I run
	N.89°58'W., on a true line bet. secs. 11 and 14.
	Over rolling plateau; through scattering timber and dense undergrowth.
	Desc.
19.00	Bottom of hollow, 75 ft. below sec. cor., course NE.
	Leave timber, bears NE. and SW.
	Asc.
40.07	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 11 in N half and S 14 in S half; dig pits, 18x18x12 ins. E and W of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
44.50	Small spring on line. Runs about two rods SE. and sinks.
54.00	Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears NE and SW.
	Desc.
66.00	Bottom of hollow, 50 ft. below ridge, course NE.
	Asc.
72.00	Top of ridge, 50 ft. above hollow, bears NW and SE.
	Desc.
80.14	The cor. of secs. 10, 11, 14, and 15.
	Land, rolling plateau.
	Soil, sandy loam; 2nd rate.
	Timber, cedar, pinon pine, and yellow pine.

Subdivision of T:19 S.,R.6 E:-Continued.

Chains

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 80.14 chs.

N.0°1'W., bet. secs. 10 and 11.

Over rolling plateau; through scattering timber and dense undergrowth.

Asc.

6.50 Top of ridge, 100 ft. above cor., bears NW and SE.

Leave timber, bears NW and SE.

Desc.

27.00 Bottom of hollow, 100 ft. below ridge, course NE.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. m kd. on brass cap $\frac{1}{4}$ S 10° in W half; and S 11° in E half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.90 Top of spur, 75 ft. above hollow, bears NE and SW.

Desc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for cor. of secs. 2, 3, 10, and 11, mkd. on brass cap

T 19 S S 3° in NW.

R 6 E S 2° in NE.

S 11 in SE.; and

S 10 in SW quadrants; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, rolling plateau.

Soil, sandy loam; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 80.00 chs.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	<p>June 4, 1910: At this cor. I set off $22^{\circ}24'N.$, on the decl. arc; and at 11 h 58. m a.m., l.m.t., I observe the sun on the meridian; the resulting lat. is $39^{\circ}11'N.$, which is the proper lat. nearly.</p> <p>S. $89^{\circ}58'E.$, on a random line bet. secs. 2 and 11.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect N. and S. line, at the cross for the cor. of secs 1, 2, 11, and 12, which is 3.50 chs. S. $0^{\circ}1'E.$, from the witness cor.
	<p>Thence I run</p> <p>N. $89^{\circ}58'W.$, on a true line bet. secs. 2 and 11.</p> <p>Over mountainous land; through scattering timber.</p> <p>Desc. over ledges.</p>
28.80	Bottom of Rock Canon, 1000 ft. below cor., course S. $80^{\circ}E.$
	Asc. over ledges.
40.10	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock bottom, and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}S$ 2° in N half and S 11 in S half; from which
	<p>A cedar, 12 ins. dia., bears N. $47^{\circ}W.$, 22 lks. dist. mkd. $\frac{1}{4}S$ 2° B.T.</p> <p>A cedar, 10 ins. dia., bears S. $76^{\circ}W.$, 16 lks. dist. mkd. $\frac{1}{4}S$ 11 B.T.</p>
46.00	Top of spur, 500 ft. above canon, bears N. and S.
	Desc. over ledges.
55.90	Bottom of hollow, 200 ft. below spur, course NE.
	<p>Leave timber, bears NE and SW.</p> <p>Asc. over ledges.</p>
59.70	Top of ascent, 150 ft. above hollow, bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$
	<p>Thence over rolling plateau.</p> <p>Enter dense sage brush, bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$</p>

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
80.20	The cor. of secs. 2, 3, 10, and 11. Land, mountainous and rolling. Soil, sandy and clay loam and rocky; 2nd and 4th rate. Timber, cedar, pinon pine, and yellow pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 80.20 chs.
	N. 0° 1' W., on a random line bet. secs. 2 and 3.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.96	Intersect N. bdy. of Tp. 19 S. 18 E. W. 91° of the cor. of secs. 2, 3, 34, and 35, heretofore described, thence I run S. 0° 7' W., on a true line bet. secs. 2 and 3. Over mountainous land; through scattering timber and dense undergrowth. Dens.
2.00	Enter heavy timber, bears E. and W.
5.00	Old road, bears NE and SW.
16.00	Leave timber, bears NW and SE.
20.00	Foot of steep descent, bears NW and SE. Enter plateau, bears NW and SE.
21.00	Old road, bears N. 15° W. and S. 15° E.
39.96	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 3' in W half and S 2 in; E half; from which A pinon pine, 6 ins. in dia., bears S. 72° W., 115 lbs. dist. mkd. $\frac{1}{4}$ S 3' in E. No other trees within limit; dig pits 18x18x12 ins. N. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{4}$ ft. base, 1 $\frac{1}{4}$ ft. high, E. of cor.

Subdivision of T. 19 S., R. 6 E. - Continued.

Chain	
46.00	Old road, bears N. 20° E. and S. 20° W.
64.00	Desc. over ledges into Rock Canon, bears N. 20° E. and S. 20° W.
65.50	Bottom of Rock Canon, 100 ft. below $\frac{1}{4}$ sec. cor., course E. Asc. over ledges.
68.00	Top of ascent, bears E. and W. Leave ledges, bears E. and W. Thence over plateau.
79.96	Cor. of secs. 2, 3, 10 and 11. Land, mountainous. Soil, sandy and gravelly; 2nd rate. Timber, cedar and pinon pine and mahogany. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.96 chs.

June 4, 1910.

June 5, 1910: At 7 h 58 m a.m., l.m.t., I set off 39° 07' N.,
on the lat. arc; 22° 34' N., on the decl. arc; and determine
a meridian with the solar, at the cor. of secs. 3, 4, 33 and
34, on S. bdy. of Tp., heretofore described.

Thence I run

N. 0° 2' W., on a true line bet. secs. 33 and 34.

Over rolling land, thorough heavy timber and scattering
undergrowth.

Asc.

40.00	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock bottom and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S. 33 in W half and S 34 in E half;
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Subdivision of T.19 S., R.6 E.-Continued.

Chains

A pinon pine, 4 ins. dia., bears N. 80° E., 30 lks.
dist..mkd. $\frac{1}{2}$ S 34 B T.

A pinon pine, 6 ins. dia., bears N. 70° W., 45 lks.
dist..mkd. $\frac{1}{4}$ S 33 B T.

46.00 Top of ascent, leave ledges, bears NW and SE.

Thence along top of ridge.

Asc. gradually.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground, for cor. of secs. 27, 28, 33, and 34, mkd. on brass cap
T 19 S S 28 in NW.

R 6 E S 27 in NE.

S 34 in SE.; and

S 33 in SW. quadrants; from which

A pinon pine, 6 ins. dia., bears S. 8° 50' E., 51 lks.
dist..mkd. T 19 S R 6 E S 34 B T.

A pinon pine, 12 ins. dia., bears S. 44° 25' W., 58 lks.
dist..mkd. T 19 S R 6 E S 33 B T.

A cedar, 10 ins. dia., bears N. 25° W., 30 lks.
dist..mkd. T 19 S R 6 E S 28 B T.

No other trees within limits; raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous and nearly level.

Soil, sandy and clay loam and rocky; 2nd and 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

East, on a random line bet. secs. 27 and 34.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

79.98 Intersect N. and S. line, 18 lks. N. of the cor. of secs. 26, 27,
34, and 35.

Subdivision of T.19 S., R.6 E.--Continued.

Chains	<p>Thence I run</p> <p>N.89°52'W., on a true line bet. secs. 27 and 34.</p> <p>Over mountainous land; through heavy timber .</p> <p>Desc. over ledges.</p> <p>2.00 Bottom of canon, 50 ft. below sec. cor., course SW.</p> <p>Asc. over ledges.</p> <p>26.00 Top of rocky ridge, 300 ft. above canon, bears NE and SW.</p> <p>Desc. over ledges.</p> <p>28.00 Leave timber, bears NE and SW.</p> <p>39.99 Set an iron post, 3 ft. long, 1 in. in dia., 20 in. in the ground, on solid rock bottom, and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 27 in N half and S 34 in S half; and raise a mound of stone, 2 ft. base $1\frac{1}{2}$ ft. high, N. of cor.</p> <p>56.00 Bottom of Middlecum Hollow, 600 ft. below ridge, course S. 10°E.</p> <p>Asc. over ledges.</p> <p>79.90 Top of ascent, 600 ft. above canon, bears N. 10°W. and S. 10°E.</p> <p>Thence over flat ridge.</p> <p>79.98 The cor. of secs. 27, 28, 33, and 34.</p> <p>Land, mountainous and level.</p> <p>Soil, sandy loam and rocky; 2nd and 4th rate.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, 79.98 chs.</p>
	<p>N. 0°2'W., bet. secs. 27 and 28.</p> <p>Over flat ridge, through heavy timber and dense sage brush.</p> <p>Desc.</p>

Subdivision of T.19 S., R.6 E.-Continued.

Chains

1.50 Leave ridge top, bears N.10°W. and S.10°E.

Desc. over ledges.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 26° in W half and S 27° in E half; from which

A pinon pine, 6 ins. dia., bears N.70°E., 8 lks.
dist..mkd. $\frac{1}{4}$ S 27° B T.

A pinon pine, 14 ins. dia., bears S.20°W., 6 lks.
dist..mkd. $\frac{1}{4}$ S 28° B T.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, mkd. on brass cap T 19 S S 21° in NW.

R.6 E S 22° in NE.

S 27° in SE.; and

S 28° in SW. quadrants; from which

A pinon pine, 8 ins. dia., bears N.32°40'E., 54 lks.
dist..mkd. T 19 S R 6 E S 22° B T.

A pinon pine, 6 ins. dia., bears S.46°E., 24 lks.
dist..mkd. T 19 S R 6 E S 27° B T.

A cedar, 5 ins. dia., bears S.59°30'W., 59 lks.
dist..mkd. T 19 S R 6 E S 28° B T.

A pinon pine, 5 ins. dia., bears N.59°W., 14 lks.
dist..mkd. T 19 S R 6 E S 21° B T.

Land, mountainous and level.

Soil, sandy and rocky; 2nd and 4th rate.

Timber, cedar and pinon pine.

Undergrowth sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

June 5, 1910: At this cor. I set off 22°32'N., on the decl. arc; and at 11 h 58 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 39°09'N., which is the

Subdivision of T.19 S., R.6 E.-Continued.

Chains	proper lat.nearly.
	S.89°52'E., on a random line bet.secs.22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.94	Intersect N.and S.line, 14 lks.S.of the cor.of secs.22, 23, 26, and 27.
	Thence I run
	N.89°58'W., on a true line bet.secs.22 and 27.
	Over rolling plateau; through dense undergrowth.
	Desc.
30.00	Enter heavy timber, bears NE and SW.
31.00	Bottom of swale, 50 ft.below sec.cor., course SW.
	Asc.
39.00	Leave plateau, bears N.20°W.and S.20°E.
	Desc.abruptly over ledges.
39.97	Set an iron post, 3 ft.long, 1 in.in dia., 12 ins.in the ground, on solid rock, and surrounded by mound of stone, for $\frac{1}{4}$ sec.cor. mkd.on brass cap $\frac{1}{4}$ S 22° in N.half; and S 27° in S half; from which
	A red pine, 20 ins.dia., bears N.3°30'E., 118 lks. dist..mkd. $\frac{1}{4}$ S 22° B.T.
	A pinon pine, 8 ins.dia., bears S.57°30'E., 80 lks. dist..mkd. $\frac{1}{4}$ S 27° B T.
74.40	Bottom of Biddlecum Hollow, 600 ft.below plateau, course S.10°E.
	Asc.abruptly over ledges.
79.94	The cor.of secs.21, 22, 27, and 28.
	Land, mountainous and rolling plateau.
	Soil, sandy loam and rocky; 2nd and 4th rate.
	Timber, cedar, pinon pine, and yellow pine.
	Undergrowth, sage brush and service berry.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered

Subdivision of T.19 S., R.6 E.-Continued.

Chains

with dense undergrowth, 79.94 chs.

N.0°2'W., bet. secs. 21 and 22.

Over mountainous land; through heavy timber and scattering undergrowth.

Desc. over boulders and ledges.

25.00 Bottom of Biddlecum hollow, 75 ft. below sec. cor., course S.20°E.

Leave ledges, bears N.20°W. and S.20°E.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 21° in W half and S 22° in E half; from which

A pinon pine, 10 ins. dia., bears S.50°E., 22 lks.

dist..mkd. $\frac{1}{4}$ S 22° B T.

A pinon pine, 6 ins. dia., bears S.40°W., 25 lks.

dist..mkd. $\frac{1}{4}$ S 21° B T.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, mkd. on brass cap

T 19 S S 16° in NW.

R 6 E S 15° in NE.

S 22° in SE.; and

S 21° in SW. quadrants; from which

A cedar, 6 ins. dia., bears N.36°E., 48 lks. dist.

mkd. T 19 S R 6 E S 15° B T.

A pinon pine, 20 ins. dia., bears S.55°E., 15 lks.

dist..mkd. T 19 S R 6 E S 22° B T.

A pinon pine, 6 ins. dia., bears S.39°W., 67 lks.

dist..mkd. T 19 S R 6 E S 21° B T.

A pinon pine, 12 ins. in dia., bears N.8°W., 44 lks.

dist..mkd. T 19 S R 6 E S 16° B T.

Subdivision of T.19 S., R.6 E.-Continued.

Chains Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

S. $89^{\circ}58'E$, on a random line bet. secs. 15 and 22

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 14, 15, 22, and 23.

Thence I run

West, on a true line bet. secs. 15 and 22.

Over rolling plateau; through heavy timber.

Desc.

37.00 Leave heavy timber and enter scattering timber, bears NE and SW.

39.98 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 15 in N half and S 22 in S half; from which

A pinon pine, 12 ins. dia., bears N. $78^{\circ}W$, 118 lks. dist. mkd. $\frac{1}{4}$ S 15 B T.

A pinon pine, 24 ins. in dia., bears S. $5^{\circ}E$, 102 lks. dist. mkd. $\frac{1}{4}$ S 22 B T.

41.00 Enter heavy timber, bears N. and S.

49.00 Leave plateau, bears N. and S.

Desc. abruptly over ledges.

60.00 Foot of abrupt descent, leave ledges, bears N. and S.

Desc. more gradually.

79.96 The cor. of secs. 15, 16, 21, and 22.

Land, mountainous and rolling plateau.

Soil, sandy and clay loam and rocky; 2nd and 4th rate.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

Timber, cedar, pinon pine, and yellow pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, 79.96 chs.

June 5, 1910.

June 6, 1910 At 7 h 58 m a.m., l.m.t., I set off $39^{\circ}10'N.$,
on the lat.arc; $22^{\circ}37'N.$, on the decl.arc; and determine a
meridian with the solar, at the cor. of secs. 15, 16, 21, and
22.

Thence I run

N. $0^{\circ}2'W.$, bet. secs. 15 and 16.

Over mountainous land; through heavy timber.

Desc. gradually.

3.30 Bottom of wash, 50 ft. below sec. cor., course SW and
Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4} S 16^{\circ}$ in W half
and $S 15^{\circ}$ in E half; from which

A pinon pine, 24 ins. dia., bears $S. 87^{\circ}E.$, 44 lks.
dist.. mkd. $\frac{1}{4} S 15^{\circ} B T.$

A pinon pine, 24 ins. dia., bears $N. 81^{\circ}W.$, 69 lks.
dist.. mkd. $\frac{1}{4} S 16^{\circ} B T.$

44.00 Leave timber, bears NW and SE.

Enter dense sage brush, bears NW and SE.

61.00 Bottom of swale, course $S. 10^{\circ}E.$

Asc.

75.00 Begin abrupt ascent over ledges, bears NW and SE.

Leave sage brush and enter heavy timber, bears NW and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground, for cor. of secs. 9, 10, 15, and 16, mkd. on brass cap

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	<p>T 19 S S 9[✓] in NW.</p> <p>R 6 E S 10[✓] in NE.</p> <p>S 15[✓] in SE.; and</p> <p>S 16[✓] in SW. quadrants; from which</p> <p>A cedar, 16 ins. dia., bears N. 72° 25' E., 48 lks.</p> <p>dist..mkd. T 19 S R 6 E S 10[✓] B T.</p> <p>A cedar, 16 ins. dia., bears S. 16° E., 84 lks.</p> <p>dist..mkd. T 19 S R 6 E S 15[✓] B T.</p> <p>A cedar, 14 ins. dia., bears S. 18° 35' W., 65 lks.</p> <p>dist..mkd. T 19 S R 6 E S 16[✓] B T.</p> <p>A cedar, 12 ins. dia., bears N. 72° W., 70 lks.</p> <p>dist..mkd. T 19 S R 6 E S 9[✓] B T.</p> <p>Land, mountainous.</p> <p>Soil, sandy loam and rocky; 2nd and 4th rate.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.</p> <hr/> <p>East, on a random line bet. secs. 10 and 15.</p> <p>40.00 Set temp. $\frac{1}{4}$ sec. cor.</p> <p>80.00 Intersect N. and S. line, 2 lks. S. of the cor. of secs. 10, 11, 14, and 15.</p> <p>Thence I run</p> <p>S. 89° 59' W., on a true line bet. secs. 10 and 15.</p> <p>Over rolling plateau; through scattering timber and dense undergrowth.</p> <p>Desc.</p> <p>8.80 Bottom of swale, 100 ft. below sec. cor., course NW.</p> <p>Leave timber, bears NW and SE.</p> <p>34.00 Top of ridge, 150 ft. above swale, bears NW and SE.</p>

Subdivision of T.19 S., R.6 E.-Continued.

Chains	Desc.
35.00	Enter heavy timber, bears N. and S.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 10 [✓] in N half and S 15 [✓] in S half; from which A pinon pine, 36 ins. dia., bears N. 74° 15' W., 112 lks. dist. mkd. $\frac{1}{4}$ S 10 [✓] B T. A pinon pine, 33 ins. in dia., bears S. 28° 30' W., 60 lks. dist. mkd. $\frac{1}{4}$ S 15 [✓] B T.
43.00	Begin abrupt descent, over ledges, bears N. 30° W. and S. 30° E. Leave plateau, bears N. 30° W. and S. 30° E.
47.00	Foot of steep descent, 150 ft. below $\frac{1}{4}$ sec. cor., bears NW and SE. Leave ledges, bears NW and SE. Desc. gradually.
78.90	Begin abrupt descent over ledges, bears NW and SE.
80.00	The cor. of secs. 9, 10, 15, and 16. Land, mountainous and rolling plateau. Soil, sandy loam and rocky; 2nd and 4th rate. Timber, cedar and pinon pine. Undergrowth, sage brush and service berry brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs. <hr style="width: 10%; margin: 20px auto;"/> N. 0° 2' W., bet. secs. 9 and 10. Over mountainous land; through heavy timber. Asc. over ledges.
1.10	Leave ledges, bears NW and SE.
7.50	Top of flat ridge, 50 ft. above sec. cor., bears N. 80° E. and S. 80° W. Desc.
36.00	Bottom of hollow, 100 ft. below ridge, course S. 80° W.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Asc.
36.60	Old road, bears N.80°E. and S.80°W.
39.50	Begin abrupt ascent, bears N.80°E. and S.80°W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock bottom, and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 9° in W half and S 10° in E half; from which <ul style="list-style-type: none"> A pinon pine, 6 ins. dia., bears S.76°W., 8 lks. dist. mkd. $\frac{1}{4}$ S 9° B T. A cedar, 14 ins. dia., bears S.26°30'E., 51 lks. dist. mkd. $\frac{1}{4}$ S 10° B T.
44.00	Top of ascent, 150 ft. above hollow, bears NW and SE. Thence over rolling plateau.
76.00	Leave timber, bears NW and SE. Enter dense sage brush.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. cor. of secs. 3, 4, 9, and 10, mkd. on brass cap <ul style="list-style-type: none"> T 19 S S 4° in NW. R 6 E S 3° in NE. S 10° in SE.; and S 9° in SW. quadrants; from which A pinon pine, 10 ins. dia., bears S.77°30'W., 128 lks. dist. mkd. T 19 S., R 6 E S 9° B T. A pinon pine, 16 ins. dia., bears N.85°25'W., 80 lks. dist. mkd. T 19 S R 6 E S 4° B T.
	No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous and rolling plateau.
	Soil, sandy loam and rocky; 2nd and 4th rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	June 6, 1910: At this cor. I set off 22°36'N., on the decl.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

arc; and

arc; and at 7 h 58 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $39^{\circ}11'N$, which is the proper lat. nearly.

N. $89^{\circ}59'E$, on a random line bet. secs. 3 and 10.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.98 Intersect N. and S. line, 10 lks. S. of the cor. of secs. 2, 3, 10, and 11.

Thence I run

S. $89^{\circ}55'W$, on a true line bet. secs. 3 and 10.

Over rolling plateau; through dense sage brush.

Desc. gradually.

23.00 Bottom of swale, 50 ft. below sec. cor., course N. $30^{\circ}W$.

Asc.

34.00 Top of ridge, 150 ft. above swale, bears NE and SW.

Old road, bears NE and SW.

Enter scattering timber, bears NE and SW.

Desc.

39.99 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 3° in N half and S 10° in S half; from which

A cedar, 14 ins. dia., bears N. $31^{\circ}50'W$, 150 lks.
dist. mkd. $\frac{1}{4}$ S 3° B T.

A cedar, 5 ins. dia., bears S. $78^{\circ}30'W$, 149 lks.
dist. mkd. $\frac{1}{4}$ S 10° B T.

47.50 Bottom of hollow, 100 ft. below ridge, course NE.

Leave timber, bears NE and SW.

Asc.

79.98 The cor. of secs. 3, 4, 9, and 10.

Land, rolling plateau.

Soil, sandy and clay loam; 2nd rate.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Land covered with dense undergrowth, 79.98 mhs.
	N. 0° 2' W., on a random line bet. secs. 3 and 4.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.08	Intersect N. bdy. of Tp., at the cor. of secs. 3, 4, 33, and 34, heretofore described. Thence I run S. 0° 2' E., on a true line bet. secs. 3 and 4. Over mountainous land; through heavy timber. Desc. over sandstone boulders.
37.90	Begin more abrupt descent, bears E. and W. Leave boulders, bears E. and W.
40.08	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 4 ^v in W half and S 3 in E half; from which A pinon pine, 12 ins. dia. bears S. 25° E., 286 lks. dist.. mkd. $\frac{1}{4}$ S 3 ^v B T. A pinon pine, 6 ins. dia., bears S. 5° W., 108 lks. dist.; and mkd. $\frac{1}{4}$ S 4 ^v B T. Foot of steep descent, bears E and W. Desc. more gradually.
41.20	Bottom of swale, 300 ft. below sec. cor., course E. Asc.
48.00	Top of ridge, 75 ft. above swale, bears E. and W. Desc./.
52.20	Bottom of hollow, 250 ft. below ridge, course S. 65° E. Asc.
72.00	Top of ridge, 200 ft. above hollow, bears E. and W.

Subdivision of T.19 S., R.6 E.-Continued.

Chains Leave timber, bears E. and W. Enter dense sage brush.

Desc.

76.00 Foot of descent, 100 ft. below ridge, bears NE and SW.

Thence over rolling plateau.

80.08 The cor. of secs. 3, 4, 9, and 10.

Land, mountainous and rolling plateau.

Soil, sandy and clay loam and rocky; 2nd and 4th rate.

Timber, cedar and pinon pine,

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered

with dense undergrowth, 80.08 chs.

June 6, 1910.

June 7, 1910: At 7 h 58 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat. arc; $22^{\circ}44'N.$, on the decl. arc; and determine a meridian, with the solar, at the cor. of secs. 4, 5, 32, and 33, on S. bdy. of Tp., heretofore described.

Thence I run

$N.0^{\circ}3'W.$, bet. secs. 32 and 33.

Over mountainous land; through heavy timber.

Desc.

17.40 Bottom of hollow, 200 ft. below sec. cor., course $N.15^{\circ}E.$

Asc.

40.00 Top of spur, 100 ft. above hollow, bears NE and SW,

Set an iron post, 3 ft. long, 1 in. in dia., 20 ins. in the ground, on solid rock, and surrounded by mound of stone, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 32° in W half and S 33° in E half; from which

A pinon pine, 6 ins. dia., bears $N.60^{\circ}40'E.$, 33 lks.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	dist.; mkd. $\frac{1}{4}$ S 33 $\frac{1}{2}$ B T.
	A pinon pine, 6 ins. dia., bears N. 53° 40' W., 57 lks.
	dist. mkd. $\frac{1}{4}$ S 32 $\frac{1}{2}$ B T.
45.50	Foot of descent, 250 ft. below spur, bears N. 30° W. and S. 30° E.
	Enter bottom of Ferron Canon.
47.00	Wagon road, bears N. 30° W. and S. 30° E.
49.00	Right bank of Ferron Creek, 2 ft. deep, rocky bottom, rapid current, course S. 30° E.
51.00	Left bank of Ferron creek,
53.50	Leave canon bottom, bears N. 30° W. and S. 30° E.
54.00	Top of ledge, 30 ft. high, bears N. 30° W. and S. 30° E.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, mkd. on brass cap
	T 19 S S 29 $\frac{1}{2}$ in NW.
	R 6 E S 28 $\frac{1}{2}$ in NE.
	S 33 $\frac{1}{2}$ in SE.; and
	S 32 $\frac{1}{2}$ in SW. quadrants; from which
	A pinon pine, 7 ins. dia., bears N. 35° 45' E., 32 lks.
	dist. mkd. T 19 S R 6 E S 28 $\frac{1}{2}$ B T.
	A pinon pine, 8 ins. dia., bears S. 32° E., 35 lks.
	dist. mkd. T 19 S R 6 E S 33 $\frac{1}{2}$ B T.
	A pinon pine, 7 ins. dia., bears S. 50° 40' W., 52 lks.
	dist. mkd. T 19 S R 6 E S 32 $\frac{1}{2}$ B T.
	A pinon pine, 6 ins. dia., bears N. 25° W., 37 lks.
	dist. mkd. T 19 S R 6 E S 29 $\frac{1}{2}$ B T.
	Land, mountainous .
	Soil, sandy and rocky; 3rd and 4th rate.
	Timber, cedar and pinon pine and a few cottonwoods in Ferron canon.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	East, on a random line bet. secs. 28 and 33.

subdivision of T.19 S., R.6 E.-Continued.

chains

- 40.00 Set temp. $\frac{1}{2}$ sec.cor.
- 80.00 Intersect N.and S.line, 5 lks.N.of the cor.of secs.27, 28, 33, and 34.
- thence I run
N.89°58'W., on a true line bet.secs.28 and 33.
over mountainous land; through heavy timber and scattering sage brush.
- Asc.gradually along top of flat ridge.
- 12.00 Desc.abruptly from ridge top, bears N.30°W.and S.30°E.
- 25.00 bottom of hollow, 200 ft.below ridge, course S.30°E.
- Asc.
- 33.00 Top of ridge, 150 ft.above hollow, bears NW and SE.
- Desc.
- 36.20 Top of ledge, 30 ft.high, bears N.and S.
- 40.00 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 28' in N half and S 33' in S half; from which
- A cedar, 8 ins.dia., bears N.25°W., 117 lks.
dist..mkd.. $\frac{1}{2}$ S 28' B T.
- A pinon pine, 12 ins.in dia., bears S., 57 lks.
dist..mkd.. $\frac{1}{4}$ S 33' B T.
- 80.00 The cor.of secs.28, 29, 32, and 33, 900 ft.below ridge.
Land, mountainous.
Soil, sandy and rocky; 3rd rate.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, 80.00 chs.

N.0°3'W., bet.secs.28 and 29.

Over mountainous land; through heavy timber and scattering undergrowth.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Asc.
19.60	Top of spur, 100 ft./above sec.cor., bears E.and W. Desc.
22.80	Bottom of hollow, 150 ft.below ridge, course S.70°W. Asc.
36.25	Road, bears N.15°E.and S.15°W.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 29 in W half and S 28 in E half; from which A pinon pine, 11 ins.in dia., bears S.75°E., 49 lks. dist..mkd. $\frac{1}{4}$ S 28 B T. A pinon pine, 8 ins.dia., bears S.79°40'W., 67 lks. dist..mkd. $\frac{1}{4}$ S 29 B T.
44.00	Road, bears N.30°W.and S.30°E.
52.00	Top of spur, 20 ft.above hollow, bears E.and W. Desc.
65.00	Bottom of hollow, 100 ft.below spur, course W. Asc.
79.00	Top of spur, 100 ft.above hollow, bears E.and W. Desc.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground, for cor.of secs.20, 21, 28, and 29, mkd.on brass cap T 19 S S 20 in NW. R 6 E S 21 in NE. S 28 in SE.; and S 29 in SW.quadrants; from which A pinon pine, 11 ins.in dia., bears N.12°E. 105 lks. dist..mkd.T 19 S R 6 E S 21 B T. A pinon pine, 5 ins.dia., bears S.42 °E., 27 lks. dist..mkd.T 19 S R 6 E S 28 B T. A pinon pine, 5 ins.dia., bears S.5°W., 49 lks. dist..mkd.T 19 S R 6 E S 29 B T. A pinon pine, 8 ins.dia., bears N.2°30'W., 82 lks. dist..mkd.T 19 S R 6 E S 20 B T.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

Land, mountainous .

Soil, sandy and gravelly; 2nd and 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

June 7, 1910: At this cor. I set off $22^{\circ}44'N.$, on the decl. arc; and at 11 h 58 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $39^{\circ}09'N.$, which is the proper lat. nearly.

S. $89^{\circ}58'E.$, on a random line bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.02 Intersect N. and S. line, 23 lks. N. of the cor. of secs. 21, 22, 27, and 28.

Thence I run

N. $89^{\circ}48'W.$, on a true line bet. secs. 21 and 28.

Over mountainous land; through heavy timber and scattering undergrowth.

Asc. over ledges.

9.00 Top of steep ascent, 300 ft. above sec. cor., bears N. and S
Thence over flat ridge.

40.01 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 21^v in W half and S 28^v in S half; from which

A pinon pine, 6 ins. dia., bears N. $50^{\circ}E.$, 22 lks.
dist..mkd. $\frac{1}{4}$ S 21 B T.

A pinon pine, 8 ins. dia., bears S. $46^{\circ}W.$, 16 lks.
dist..mkd. $\frac{1}{4}$ S 28 B T.

41.00 Leave ridge top o, bears N. and S.

Desc. over ledges.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 60.00 Foot of steep^{descent} 300 ft. below ridge, bears N. and S.
 Leave ledges, bears N. and S.
 Desc. gradually.
- 80.02 The cor. of secs. 20, 21, 28, and 29. . .
 Land, mountainous and nearly level.
 Soil, sandy loam and rocky; 2nd and 4th rate.
 Timber, cedar and pinon pine.
 Undergrowth, sage brush/
 Good grass for grazing.
 Mountainous or heavily timbered land, 80.02 chs.
- N. 0° 3' W., bet. secs. 20 and 21. . .
 Over mountainous land; through heavy timber; and
 scattering undergrowth.
 Desc.
- 1.50 Bottom of hollow, 25 ft. below sec. cor., course W.
 Asc.
- 4.50 Top of spur, 60 ft. above hollow, bears E. and W.
 Desc.
- 8.60 Bottom of hollow, 125 ft. below ridge, course W.
 Asc.
- 13.00 Top of spur, 100 ft. above hollow, bears E. and W.
 Desc.
- 19.50 Bottom of hollow, 125 ft. below spur, course W.
 Asc.
- 23.00 Top of spur, 100 ft. above hollow, bears E. and W.
 Desc.
- 30.80 Bottom of hollow, 150 ft. below spur, course SW.
 Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 20° in W half

Subdivision of T.19 S., R.6 E.-Continued.

Chains

and S 21 in E half; from which

A cedar, 7 ins. dia., bears N. 52° E., 63 lks.

dist. mkd. $\frac{1}{2}$ S 21 B T.

A pinon pine, 8 ins. dia., bears S. 71° W., 33 lks.

dist. mkd. $\frac{1}{2}$ S 20 B T.

56.00 Top of ridge, 200 ft. above hollow, bears E. and W.

Desc.

77.20 Bottom of hollow, 100 ft. below ridge, course SW.

Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, mkd. on brass cap

T 19 S S 17' in NW.

R 6 E S 16' in NE.

S 21' in SE.; and

S 20' in SW. quadrants; from which

A cedar, 14 ins. dia., bears N. 50° E., 48 lks.

dist. mkd. T 19 S R 6 E S 16' B T.

A pinon pine, 16 ins. dia., bears S. 8° E., 36 lks.

dist. mkd. T 19 S R 6 E S 21' B T.

A cedar, 6 ins. dia., bears S. 44° W., 36 lks. dist.

mkd. T 19 S R 6 E S 20' B T.

A pinon pine, 6 ins. dia., bears N. 65° W., 33 lks.

dist. mkd. T 19 S R 6 E S 17' B T.

Land, mountainous.

Soil, clay and rocky; 2nd and 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

S. 89° 48' E., on a random line bet. secs. 16 and 21

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.96	Intersect N. and S. line, 16 lks. S. of the cor. of secs. 15, 16, 21, and 22. Thence I run N. $89^{\circ}55'W.$, on a true line bet. secs. 16 and 21. Over mountainous land; through heavy timber and scattering undergrowth. Desc. 6.00 Bottom of Biddlecum Hollow, 50 ft. below sec. cor., course S. $10^{\circ}E.$ Asc. 25.00 Top of ascent, 200 ft. above canon, bears N. and S. Thence over flat ridge. 39.98 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 16 in N half and S 21 in S half; from which A cedar, 10 ins. dia., bears N. $40^{\circ}W.$, 3 lks. dist.. mkd. $\frac{1}{4}$ S 16 B T. A cedar, 8 ins. dia., bears S. $84^{\circ}E.$, 10 lks. dist.. mkd. $\frac{1}{4}$ S 21 B T. 49.00 Leave flat ridge, bears N. and S. Desc. over ledges. 77.00 Bottom of hollow, 300 ft. below ridge, course SW. Asc. 79.96 The cor. of secs. 16, 17, 20, and 21. Land, mountainous and nearly level. Soil, sandy; 2nd rate. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 79.96 chs.

June 7, 1910.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	<p>June 8, 1910: At 7 h 59 m a.m., l.m.t., I set off $39^{\circ}10'N.$, on the lat. arc; $22^{\circ}49'N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 15, 17, 20, and 21.</p> <p>Thence I run</p> <p>$N.0^{\circ}3'W.$, bet. secs. 16 and 17.</p> <p>Over mountainous land; through heavy timber and scattering undergrowth.</p> <p>Asc.</p>
37.60	<p>Top of ridge, 200 ft. above sec. cor., bears NW. and SE.</p> <p>Desc.</p>
40.00	<p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4} S 17^{\vee}$ in W half and $S 16^{\vee}$ in E half; from which</p> <p>A pinon pine, 12 ins. dia., bears $S.40^{\circ}E.$, 39 lks. dist.. mkd. $\frac{1}{4} S 16^{\vee} B T.$</p> <p>A pinon pine, 10 ins. dia., bears $S.65^{\circ}W.$, 50 lks. dist.. mkd. $\frac{1}{4} S 15^{\vee} B T.$</p>
48.90	Begin steep descent, bears NW and SE.
58.30	<p>Bottom of hollow, 150 ft. below ridge, course $N.40^{\circ}W.$</p> <p>Asc.</p>
80.00	<p>Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the ground, on solid rock, and surrounded by mound of stone, for cor. of secs. 8, 9, 16, and 17, mkd. on brass cap</p> <p>$T 19 S S 8^{\vee}$ in NW.</p> <p>$R 6 E S 9^{\vee}$ in NE.</p> <p>$S 16^{\vee}$ in SE.; and</p> <p>$S 17^{\vee}$ in SW., quadrants; from which</p> <p>A cedar, 14 ins. dia., bears $N.50^{\circ}E.$, 48 lks. dist.. mkd. $T 19 S R 6 E S 9^{\vee} B T.$</p> <p>A pinon pine, 6 ins. dia., bears $S.8^{\circ}E.$, 36 lks. dist.. mkd. $T 19 S R 6 E S 16^{\vee} B T.$</p> <p>A cedar, 6 ins. dia., bears $S.44^{\circ}W.$, 36 lks. dist.. mkd. $T 19 S R 6 E S 17^{\vee} B T.$</p>

Subdivision of T.19 S., R.6 E.-Continued.

Chains

A pinon pine, 6 ins. dia., bears N. 65° W., 33 lks.

dist..mkd. T 19 S R 6 E S 8 B T.

Land, mountainous .

Soil, sandy loam; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

S. 89° 55' E., on a random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.04 Intersect N. and S. line, 9 lks. N. of the cor. of secs. 9, 10, 15, and 16.

Thence I run

N. 89° 51' W., on a true line bet. secs. 9 and 16.

Over mountainous land; through heavy timber .

Desc.

16.00 Leave timber and enter dense sage brush, bears NW and SE.

Begin more gradual descent, bears NW and SE.

20.00 Bottom of hollow, 150 ft. below sec. cor., course S.

Asc.

23.60 Begin abrupt ascent, bears NE and SW.

Leave dense sage brush and enter scattering sage brush and heavy timber, bears NE and SW.

30.00 Top of ridge, 100 ft. above hollow, bears NE and SW.

Desc. abruptly.

40.02 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 9° in N half and S 16° in S half; from which

A cedar, 10 ins. in dia., bears N. 23° E., 56 lks.

dist..mkd. $\frac{1}{4}$ S 9 B T.

A pinon pine, 16 ins. dia., bears S. 76° E., 34 lks.

dist..mkd. $\frac{1}{4}$ S 16 B T.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 40.10 Top of ledge, 20 ft. high, bears N. and S.
- 44.60 Foot of descent, 100 ft. below ledge, bears N. and S.
Desc. gradually.
- 65.40 Begin abrupt descent, bears N. 20° E. and S. 20° W.
- 70.10 Desc. over ledges, bears N. and S.
- 73.00 Leave ledges, bears N. and S.
- 80.04 The cor. of secs. 8, 9, 16, and 17, .
Land, mountainous .
Soil, sandy and rocky; 2nd and 4th rate.
Timber, cedar and pinon pine.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous or heavily timbered land, or land covered
with dense undergrowth, 80.04 chs.
-
- N. 0° 3' W., bet. secs. 8 and 9 .
Over mountainous land; through heavy timber and scatter-
ing sage brush.
Asc. along west side of ridge; through ledges and
boulders.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the
ground, on solid rock, and surrounded by mound of stone,
for $\frac{1}{4}$ sec. cor. . mkd. on brass cap $\frac{1}{4}$ S 8 in W half; and
S 9 in E half; from which
A pinon pine, 10 ins. dia., bears N. 61° E., 49 lks.
dist. . mkd. $\frac{1}{4}$ S 9 B T.
A pinon pine, 12 ins. dia., bears W., 22 lks.
dist. . mkd. $\frac{1}{4}$ S 8 B T.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 12 ins. in the
ground, on solid rock, and surrounded by mound of stone,
for cor. of secs. 4, 5, 8, and 9, mkd. on brass cap

Subdivision of T.19 S., R.6 E.-Continued.

Chains

T 19 S S 5' in NW.

R 6' E S 4' in NE.

S 9' in SE.; and

S 8' in SW. quadrants; from which

A pinon pine, 10 ins. dia., bears N. $57^{\circ}20'$ E., 21 lks.
dist..mkd.; T 19 S R 6 E S 4' B T.

A pinon pine, 6 ins. dia., bears S. 56° E., 30 lks.
dist..mkd. T 19 S R 6 E S 9' B T.

A pinon pine, 8 ins. dia., bears S. $68^{\circ}20'$ W., 58 lks.
dist..mkd. T 19 S R 6 E S 8' B T.

A pinon pine, 12 ins. dia., bears N. $49^{\circ}20'$ W., 12 lks.
dist..mkd. T 19 S R 6 E S 5' B T.

Land, mountainous .

Soil, rocky; 4th rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

June 8, 1910: At this cor. I set off $22^{\circ}50'$ N., on the decl.
arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the
meridian, the resulting lat. is $39^{\circ}11'$ N., which is the
proper lat. nearly.

S. $89^{\circ}51'$ E., on a random line bet. secs. 4 and 9.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.02 Intersect N. and S. line, 21 lks. S. of the cor. of secs. 3, 4, 9,
and 10.

Thence I run

West, on a true line bet. secs. 4 and 9.

Over rolling plateau; through dense undergrowth .

Asc.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
.75	Enter heavy timber, bears NW and SE.
2.00	Leave plateau, bears NW and SE.
	Desc.
7.50	Bottom of hollow, 50 ft. below sec. cor., course S. 30° W.
	Asc.
21.00	Top of ridge, 50 ft. above hollow, bears NE and SW.
	Desc.
25.50	Bottom of hollow, 100 ft. below ridge, course SW.
	Asc.
32.00	Top of ridge, 100 ft. above hollow, bears NE and SW.
	Desc.
40.01	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 4 in N half and S 9 in S half; from which.
	A pinon pine, 8 ins. dia., bears N. 75° E., 70 lks.
	dist.. mkd. $\frac{1}{4}$ S 4 B.T.
	No other trees within limits; and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
62.00	Old road, bears N. 10° W. and S. 10° E.
77.00	Begin abrupt descent, bears N. and S.
80.02	The cor. of secs. 4, 5, 8, and 9.
	Land, mountainous and nearly level.
	Soil, sandy loam; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.02 chs.
	<hr/>
	N. 0° 3' W., on a random line bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. bdy. of Tp., 14 lks. West of the corner of secs. 4, 5, 32, and 33, heretofore described.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

Thence 1 run

S.0°3'W., on a true line bet. secs. 4 and 5.

Over nearly level bottom; through dense undergrowth.

✓ Asc. gently.

20.00 Leave undergrowth and enter scattering timber bears E. and W.

Begin ascent, bears E. and W.

32.00 Top of divide ridge, 100 ft. above bottom, bears E. and W.
Desc.40.06 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 5° in W half; and S 4° in E half; from whichA pinon pine, 16 ins. dia., bears N. 65° E., 48 lks.
dist. mkd. $\frac{1}{4}$ S 4° B T.A pinon pine, 10 ins. dia., bears S. 85° 30' W., 38 lks.
dist. mkd. $\frac{1}{4}$ S 5° B T.44.90 Bottom of hollow, 200 ft. below ridge, course SW.
Asc.46.80 Top of spur, 40 ft. above hollow, bears NE and SW.
Desc.47.10 Bottom of hollow, 40 ft. below spur, course W.
Asc.

55.70 Old road, bears NW and SE.

58.00 Top of ridge, 40 ft. above hollow, bears E. and W.
Desc.62.00 Bottom of swale, 75 ft. below ridge, course S. 60° W.
Asc. over ledges.

80.06 The cor. of secs. 4, 5, 8, and 9.

Land, mountainous and nearly level.

Soil, sandy and clay loam; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth

80.06 chs.

Subdivision of T:19 S., R.6 W.-Continued.

Chains

June 8, 1910.

June 9, 1910: At 7 h 59 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat. arc; $22^{\circ}55'N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 5, 6, 31, and 32, on S. bdy. of Tp., heretofore described.

Thence I run

$N.0^{\circ}3'W.$, bet. secs. 31 and 32.

Over mountainous land; through heavy timber and scattering undergrowth.

Desc.

11.70 Bottom of Dagway Hollow, 150 ft. below sec. cor., course $N.15^{\circ}W.$

Thence along east side of hollow.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 31° in W half and S 32° in E half; from which

A cedar, 10 ins. dia., bears $S.19^{\circ}E.$, 132 lks.

dist..mkd. $\frac{1}{4}$ S 32° B T.

A pinon pine, 8 ins. dia., bears $S.25^{\circ}W.$, 49 lks.

dist..mkd. $\frac{1}{4}$ S 31° B T.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 29, 30, 31, and 32, mkd. on brass cap

T 19 S S 30° in NW.

R 6 E S 29° in NE.

S 32° in SE.; and

S 31° in SW. quadrants; from which

A pinon pine, 8 ins. dia., bears $N.18^{\circ}E.$, 45 lks.

dist..mkd. T 19 S R 6 E S 29° B T.

A pinon pine, 10 ins. dia., bears $S.74^{\circ}E.$, 33 lks.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

dist.;mkd. T 19 S R 6 E S 32 B T.

A pinon pine, 11 in. sin dia., bears S.74°W., 60 lks

dist..mkd. T 19 S R 6 E S 31 B T.

A pinon pine, 9 ins. dia., bears N.50°W., 62 lks.

dist..mkd. T 19 S R 6 E S 30 B T.

Land, mountainous .

Soil, sandy and clay loam; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush and service berry.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

East, on a random line bet. secs. 29 and 32.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.80 Intersect N. and S. line, 21 lks. N. of the cor. of secs. 28, 29, 32, and 33.

Thence I run

N. 89° 51' W., on a true line bet. secs. 29 and 32.

Over mountainous land; through scattering timber and scattering undergrowth.

Desc.

5.70 Road, bears N. 10° W. and S. 10° E.

6.80 Bottom of hollow, 250 ft. below sec. cor., course S.

Asc. over ledges.

9.32 Top of rocky point, 250 ft. above hollow, bears N. 25° W. and S. 25° E.

Desc. over ledges.

14.50 Foot of descent, bears N. 20° W. and S. 20° E.

Enter bottom of Ferron canon.

About 6.00 chs. south of this point on south side of Ferron creek, is a good spring of water flowing about 6 gallons per minute.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 17.50 Left bank of Ferron Creek, 2 ft. deep, rocky bottom, rapid current, course S.
The wagon road crosses the creek at this point, bears NW and SE.
- 19.00 Right bank of Ferron Creek, course S.
- 19.50 Leave canon bottom, bears N. 30°W. and S. 30°E.
Asc. over ledges and boulders.
- 39.90 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 29 in N half and S 32 in S half; from which
A red pine, 8 ins. dia., bears N. 16°E., 50 lks.
dist. mkd. $\frac{1}{4}$ S 29 B T.
A pinon pine, 4 ins. dia., bears S. 43°W., 35 lks.
dist. mkd. $\frac{1}{4}$ S 32 B T.
- 79.80 The cor. of secs. 29, 30, 31, and 32.
Land, mountainous.
Soil, sandy loam and rocky; 2nd and 4th rate.
Timber, cedar, pinon pine, and red pine.
Undergrowth, sage brush, and service berry.
Good grass for grazing.
Mountainous land, 79.80 chs.
-
- West, on a random line bet. secs. 30 and 31.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.36 Intersect W. bdy. of Tp., 7 lks. S. of the cor. of secs. 25, 30, 31, and 36., heretofore described.
Thence I run
S. 89°57'E., on a true line bet. secs. 30 and 31.
Over mountainous land; through heavy timber and scattering undergrowth.
Desc.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
8.50	Dairy Creek, 6 lks. wide, 3 ft. deep, in bottom of canon, 250 ft. below sec. cor., course N. 30° E. Asc.
19.00	Top of ridge, 300 ft. above Dairy Creek, bears N. 20° E. and S. 20° W. Desc.
39.36	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 30 in N half and S 31 in S half; from which A pinon pine, 10 ins. dia., bears S. 89° E., 55 lks. dist. mkd. $\frac{1}{4}$ S 31 B.T. A pinon pine, 10 ins. dia., bears N. 37° 45' E., 109 lks. dist. mkd. $\frac{1}{4}$ S 30 B.T.
45.00	Coal outcrop, three beds 2 ft. thick separated by one foot of shale, exposed 1.50 chs. S.; bears N. and S.
47.00	Coal outcrop, 4 ft. thick, exposed 1.45 chs. S.; bears E. & W.
52.55	Gulch, 30 ft. deep, and 2.00 chs. wide; course SE. Continue descent.
66.50	Trail, bears NE and SW.
67.00	Road, bears NE and SW.
69.80	Stemens Creek, 6 lks. wide, 3 ins. deep, in bottom of canon, 150 ft. below $\frac{1}{4}$ sec. cor., course NE. Asc.
79.36	The cor. of secs. 29, 30, 31, and 32. Land, mountainous. Soil, sandy and clay loam; 2nd rate. Timber, cedar, pinon pine, and red pine. Undergrowth, sage brush and service berry. Good grass for grazing. Mountainous or heavily timbered land, 79.36 chs. June 9, 1910: At this cor. I set off 22° 55' N., on the decl. arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 39° 08' N., which is the

Subdivision of T.19 S., R.6 E.-Continued.

Chains	proper lat.nearly.
	N.0°3'W.,bet.secs.29 and 30; Over mountainous land;through scattering timber. Desc.
3.75	Stevens Creek,6 lks.wide,3 ins.deep,in bottom of canon, 200 ft.below sec.cor.,course E. Asc.
4.30	Road,bears E.and W.
21.40	Top of ledge,100 ft.high,bears NW.and SE, Thence over mesa.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 30 in W half and S 29 in E half;from which A pinon pine,10 ins.dia.,bears S.48°40'E.,26 lks. dist..mkd. $\frac{1}{4}$ S 29 B T. A pinon pine,8 ins.dia.,bears S.10°20'W.,31 lks. dist..mkd. $\frac{1}{4}$ S 30 B T.
64.00	Leave mesa,bears NE and S30°W. Desc.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.19,20,29,and 30,mkd.on brass cap T 19 S S 19 in NW. R 6 E S 20 in NE. S 29 in SE.;and S 30 in SW.quadrants;from which A cottonwood,11 ins.in dia.,bears N.51°E.,105 lks.dist..mkd.T 19 S R 6 E S 20 B T. A pinon pine,5 ins.dia.,bears S.65°E.,55 lks. dist..mkd.T 19 S R 6 E S 29 B T. A cedar,8 ins.dia.,bears N.55°W.,17 lks. dist..mkd.T 19 S R 6 E S 30 B T. A cottonwood,7 ins.dia.,bears N.11°W.,67 lks.

Subdivision of T.19 S., R.6 E. Continued.

Chains

dist..mkd.T 19 S R 6 E S 19 B T.

Land,mountainous and level.

Soil,sandy and clay loam and rocky;2nd and 4th rate.

Timber,cedar,pinon pine,and a few cottonwoods along
creek bottoms .

Undergrowth,sage brush and service berry.

Good grass for grazing.

Mountainous or heavily timbered land,80.00 chs.

S.89°51'E.,on a random line bet.secs.20 and 29.

40.00 Set temp, $\frac{1}{4}$ sec.cor.

79.90 Intersect N.and S.line,11 lks.S.of the cor.of secs.
21,22,27,and 28.

Thence I run

N.89°56'W.,on a true line bet.secs.20 and 29.

Over mountainous land;through scattering timber and
scattering undergrowth.

Desc.

4.50 Bottom of hollow,100 ft.below sec.cor.,course S.70°W.

Asc.

7.50 Top of spur,50 ft.above hollow,bears N.60°E.and S.60°W.

Desc.

10.70 Road,bears N.30°E.and S.30°W.

12.80 Bottom of hollow,250 ft.below spur,course SW.

Asc.

14.50 Top of spur,100 ft.above hollow,bears N.and S.

Desc.

25.00 Creek,2 lks.wide,1 in.deep,alkaline water,in bottom of
Dragon canon,125 ft.below spur,course S.30°E.

Asc.

37.75 Top of steep ascent,bears N.20°W.and S.20°E.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Enter heavy timber, bears N.20°W. and S.20°E. Thence over mesa.
39.95	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 20 in N half and S 29 in S half; from which A pinon pine, 9 ins. dia., bears N.6°30'E., 78 lks. dist. mkd. $\frac{1}{4}$ S 20 B. T. A pinon pine, 10 ins. dia., bears S.27°20'W., 44 lks dist. mkd. $\frac{1}{4}$ S 29 B T.
58.85	Leave mesa, bears NW and SE. Leave heavy and enter scattering timber, bears NW and SE. Note: From this point I observe a bed of coal about 4 ft thick about 8.00 chs. South on south side of Ferron Creek Desc.
71.00	Foot of descent, 300 ft. below mesa, bears N.60°W. and S.60 E.
72.50	Left bank of Ferron Creek, course S.60°E.
73.50	Right bank of Creek, 2 ft. deep, rapid current, rocky bottom course S.60°E.
74.50	Leave canon bottom, bears N.85°W. and S.60°E. Asc. along edge of canon.
79.90	The cor. of secs. 19, 20, 29, and 30. Land, mountainous and level. Soil, sandy and clay loam; 2nd rate. Timber, cedar and pinon pine, and cottonwood. Undergrowth, sage brush and service berry and mountain rush. Good grass for grazing. Mountainous or heavily timbered land, 79.90 chs.
40.00	N.89°57'W., on a random line bet. secs. 19 and 30. Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

- 79.27 Intersect W.bdy.of Tp., 5 lks.N.of the cor.of secs.
19, 24, 25, and 30, heretofore described.
- Thence I run
S.89°59'E., on a true line bet.secs.19 and 30.
Over mountainous land; through heavy timber and scattering
undergrowth.
- Desc.along south side of Ferron Canon.
- 39.27 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the
ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 19° in N half
and S 30° in S half; from which
- A pinon pine, 8 ins.in dia., bears N.1°W., 83 lks.
dist..mkd. $\frac{1}{4}$ S 19° B T.
- A pinon pine, 7 ins.in dia., bears South, 10 lks.
dist..mkd. $\frac{1}{4}$ S 30° B T.
- 67.00 Foot of descent, 300 ft.below sec.cor., bears N60°W.
and S.60°E.
- Enter bottom of Ferron Canon.
- 70.00 Right bank of Ferron Creek, 1½ ft.deep, rocky bottom, rapid
current, bears N.60°W.and S.60°E., course S.60°E.
- 71.00 Junction of Ferron Creek and Dairy Creek, Dairy Creek
comes from SW.
- 73.00 Right bank of Ferron Creek, bears N.60°E.and S.60°W.
Course N.60°E.
- 73.50 Leave canon bottom, bears N.85°E.and S.85°W.
Asc.
- 79.27 The cor.of secs.19, 20, 29, and 30.
- Land, mountainous.
- Soil, sandy and clay loam and rocky; 2nd and 3rd rate.
- Timber, cedar and pinon pine, and red pine.
- Undergrowth, sage brush and service berry.
- Good grass for grazing.
- Mountainous or heavily timbered land, 79.27 chs.

June 9, 1910.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

June 10, 1910: At 7 h 59 m a.m., l.m.t., I set off $39^{\circ}09'N.$, on the lat.arc; $23^{\circ}00'N.$, on the decl.arc; and determine a meridian with the solar, at the cor. of secs. 19, 20, 29, and 30.

Thence I run

$N.0^{\circ}3'W.$, bet. secs. 19 and 20.

Over mountainous land; through heavy timber and scattering undergrowth.

Desc.

.20 Foot of descent, 10 ft. below sec. cor., bears E. and W.

Enter bottom of Ferron Canon.

.30 Right bank of Ferron Creek, 2 ft. deep, rocky bottom, bears E. and W. Course E.

1.00 Left bank of Ferron Creek, bears E. and W.

1.75 Leave canon bottom, bears E and W.

Asc.

14.50 Base of ledge, 75 ft. high, bears $N.75^{\circ}W.$ and $S.75^{\circ}E.$

15.30 Top of ascent, bears $N.60^{\circ}W.$ and $S.60^{\circ}E.$

Thence over mesa.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 19 in W half and S 20 in E half; from which

A pinon pine, 8 ins. dia., bears $N.8^{\circ}30'E.$, 50 lks.
dist. mkd. $\frac{1}{4}$ S 20 B. T.

A pinon pine, 10 ins. dia., bears $N.51^{\circ}W.$, 68 lks.
dist. mkd. $\frac{1}{4}$ S 19 B. T.

48.00 Leave mesa, bears $N.10^{\circ}W.$ and $S.20^{\circ}E.$

Desc.

68.00 Bottom of hollow, 200 ft. below mesa, course SE.

Asc.

71.00 Top of ascent, 100 ft. above hollow, bears $N.60^{\circ}W.$ and $S.60^{\circ}E.$

Thence over mesa.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

77.50 Leave heavy and enter scattering timber, bears N.60°W. and S. S.60°E.

Enter dense sage brush, bears N.60°W. and S.60°E.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, mkd. on brass cap

T 19 S S 18[✓] in NW.

R 6 E S 17[✓] in NE.

S 20[✓] in SE.; and

S 19[✓] in SW. quadrants; from which

A pinon pine, 13 ins. dia., bears S.11°50'E., 317 lks.

dist. mkd. T 19 S R 6 E S 17[✓] B T.

A pinon pine, 12 ins. dia., bears S.40°W., 286 lks.

dist. mkd. T 19 S R 6 E S 19[✓] B T.

No other trees within limits; dig pits, 18x18x12 ins.;

NE and NW of post, 5½ ft. dist. and raise a mound of earth 3½ ft. base, 1½ ft. high, W. of cor.

Land, mountainous and level.

Soil, sandy and clay loam; 2nd rate.

Timber, cedar, pinon pine, and cottonwood.

Undergrowth, sage brush, and service berry.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

S.89°56'E., on a random line bet. secs. 17 and 20.

40.00 Set temp. ¼ sec. cor.

80.04 Intersect N. and S. line, 5 lks. N. of the cor. of secs. 16, 17, 20, and 21.

Thence I run

S.89°54'W., on a true line bet. secs. 17 and 20.

Over mountainous land; through heavy timber and scattering undergrowth.

Subdivision of T.19 S., R.1 E.-Continued.

Chains	
	Asc.
2.50	Top of ridge, 40 ft. above sec. cor., bears N. and S.
	Desc.
40.02	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 17 in N half and S 20 in S half; from which
	A pinon pine, 8 ins. dia., bears N. 30° 15' E., 60 lks. dist. mkd. $\frac{1}{4}$ S 17 B T.
	A pinon pine, 7 ins. dia., bears S. 70° 35' E., 44 lks. dist. mkd. $\frac{1}{4}$ S 20 B T.
53.10	Road, bears N. 15° W. and S. 15° E.
54.50	Bottom of Dragon canon, 300 ft. below ridge, course S. 10° E
	Asc.
63.00	Top of spur, 100 ft. above canon, bears N. 20° W. and S. 20° E.
	Desc. Enter dense sage brush.
69.00	Bottom of hollow, 50 ft. below ridge, course S. 20° E. Asc.
72.50	Top of asc. edge of mesa, bears N. 20° W. and S. 20° E.
80.04	The cor. of secs. 17, 18, 19, and 20.
	Land, mountainous and level.
	Soil, sandy and clay loam; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.04 chs.
	N. 89° 59' W. on a random line bet. secs. 18 and 19.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.20	Intersect W. bdy. of Tp., 2 lks. N. of the cor. of secs. 13, 18, 19, and 24, heretofore described.
	Thence I run
	East, on a true line bet. secs. 18 and 19.
	Over rolling mesa; through heavy timber and dense sage

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	brush.
	Desc.gently.
22.20	Leave mesa,bears N.and S.
	Desc.over ledges.
31.90	Foot of steep descent,200 ft.below mesa,bears N.and S.
	Leave ledges,bears N.and S.
	Desc.gradually.
39.20	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{2}$ sec.cor..mkd.on brass cap $\frac{1}{2}$ S 18' in N half and S 19' in S half;from which
	A pinon pine,10 ins.dia.,bears N.23°40'E.,65 lks. dist..mkd. $\frac{1}{2}$ S 18' B T.
	A pinon pine,9 ins.dia.,bears S.43°20'W.,39 lks dist..mkd. $\frac{1}{2}$ S 19' B T.
64.70	Bottom of hollow,100 ft.below $\frac{1}{2}$ sec.cor.,course SE.
	Asc.
71.00	Top of ascent,100 ft.above hollow,bears N.20°W.and S.20°E.
	Thence over mesa.
73.50	Leave timber bears N.and S.
79.20	The cor.of secs.17,18,19,and 20.
	Land,mountainous .
	Soil,sandy and gravelly loam;2nd and 3rd rate.
	Timber,cedar and pinon pine,
	Undergrowth,sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land,or land covered with dense undergrowth,79.20 chs.
	June 10 ,1910:At this cor.I set off 23°00'N.,on the decl.arc;and at 11 h 59 m a.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 39°10'N.,which is the proper lat.nearly.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

an.0°3'W.,bet.secs.17 and 18.

Over nearly level mesa;through dense sage brush.

Asc.gently;

13.00 Leave dense undergrowth and enter scattering undergrowth and scattering timber,bears N.30°W.and S.30°E.

20.00 Leave mesa,bears N.20°W.and S.20°E.

Enter heavy timber,bears NW and SE.

Asc.abruptly.

40.00 Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 18 in W half and S 17 in E half;from which

A pinon pine,10 ins.dia.,bears N.13°15'E.,66 lks
dist..mkd. $\frac{1}{4}$ S 17 B T.

A pinon pine,10 ins.dia. bears N.59°W.,26 lks.
dist..mkd. $\frac{1}{4}$ S 18 B T.

43.15 Top of spur,300 ft.above mesa,bears N.60°W.and SE.
Desc.

47.00 Bottom of hollow,40 ft.below spur,course E.

Asc. along east slope of white hill

76.50 Top of spur,150 ft.above hollow,bears E.and W.

Desc.

77.50 Bottom of hollow,50 ft.below spur,course E.

Asc.

80.00 Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.7,8,17,and 18,mkd.on brass cap

T 19 S S 7 in NW.

R 6 E S 8 in NE.

S 17 in SE.;and

S 18 in SW.quadrants;from which

A pinon pine,6 ins.dia.,bears N.28°E.,68 lks.

dist..mkd.T 19 S R 6 E S 8 B T.

A pinon pine,7 ins.dia.,bears S.10°E.,81 lks.

dist..mkd.T 19 S R 6 E S 17 B T.

A pinon pine,11 ins.dia.,bears S.62°W.,67 lks.

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	dist..mkd.T 19 S R.6 E S 18 [✓] B.T.
	A pinon pine, 6 ins.dia., bears N.6°10'W., 84 lks.
	dist..mkd.T 19 S R 6 E S 7 B.T.
	Land, mountainous
	Soil, clay; 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing..
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs,
	<hr/>
	N.89°54'E., on a random line bet.secs.8 and 17.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
80.10	Intersect N. and S. line, 23 lks. N. of the cor. of secs. 8, 9, 16, and 17.
	Thence I run
	N.89°56'W., on a true line bet.secs.8 and 17.
	Over mountainous land; through heavy timber and scatter- ing undergrowth.
	Desc.
11.00	Bottom of hollow, 150 ft. below sec.cor., course S.25°W.
	Asc.
16.00	Top of spur, 100 ft. above hollow, bears N. and S.
	Desc.
17.75	Leave timber, and enter dense sage brush, bears N. and S.
	Enter flat, bears N. and S.
28.75	Road, bears N.10°W. and S.10°E.
29.00	Bottom of Dragon Canon, 250 ft. below spur, course S.
	Asc.
40.05	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec.cor..mkd. on brass cap $\frac{1}{4}$ S 8 [✓] in N half and S 17 [✓] in S half; from which

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	<p>A cedar, 9 ins.dia., bears N.79°E.; 41 lks. dist..mkd.$\frac{1}{2}$ S 8 B T.</p> <p>A pinon pine, 6 ins.dia., bears S.70°E., 57 lks. dist..mkd.$\frac{1}{2}$ S 17 B T.</p>
45.00	Top of ridge, 300 ft.above canon, bears N.and S.
	Desc.
70.50	Creek, 1 lk..wide, 2 ins.deep, in bottom of hollow, 150 ft.below ridge, course SE. Water is alkaline.
	Asc.
80.10	The cor.of secs.7, 8, 17, and 18.
	Land, mountainous .
	Soil, sandy and clay; 2nd and 3rd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land; or land covered with dense undergrowth, 80.10 chs.
	West, on a random line bet.secs.7 and 18.
40.00	Set temp. $\frac{1}{2}$ sec.cor.
79.12	Intersect W.bdy.of Tp ., 5 lks.S.of the cor.of secs. 7, 12, 13, and 18, heretofore described.
	Thence I run S.89°58'E., on a true line bet.secs . 7 and 18.
	Over mountainous land; through heavy timber and scatter- ing undergrowth.
	Desc.gradually.
1.10	Begin abrupt descent over ledges, bears N.and S.
17.07	Top of ledge, 200 ft.high, bears N.and S.
23.30	Bottom of hollow, 500 ft.below sec.cor., course S.30°E.
	Asc.
37.30	Top of ridge, 300 ft.above hollow, bears N.and S.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

Desc.

39.12 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 7 $^{\circ}$ in N half and S 18 in S half; from which

A cedar, 15 ins. dia., bears N. 35 $^{\circ}$ E., 41 lks.

dist. mkd. $\frac{1}{4}$ S 7 $^{\circ}$ B T.

A pinon pine, 15 ins. dia., bears S. 78 $^{\circ}$ E., 53 lks.

dist. mkd. $\frac{1}{4}$ S 18 $^{\circ}$ B T.

40/30 Bottom of hollow, 50 ft. below ridge, course S. 20 $^{\circ}$ W.

Asc.

43.00 Top of spur, 250 ft. above hollow, bears N. and S.

Desc.

53.00 Bottom of swale, 50 ft. below spur, course SE.

Asc.

69.85 Top of spur, 300 ft. above hollow, bears N. and S.

Desc.

79.12 The cor. of secs. 7, 8, 17, and 18.

Land, mountainous .

Soil, sandy and clay ; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 79.12 chs.

June 10, 1910.

June 11, 1910: At 7 h 59 m a.m., l.m.t., I set off 39 $^{\circ}$ 10' N. on the lat. arc; 23 $^{\circ}$ 04' N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 7, 8, 17, and 18.

Thence I run

N. 0 $^{\circ}$ 3' W., bet. secs. 7 and 8.

Subdivision of T.19 S., R.6 E.-Continued.

Chains

Over mountainous land; through heavy timber.

Asc. along side hill.

25.00 Enter white sandstone ledges, bears N.10°E. and S.10°W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 7 in W half and S 8 in E half; from which

A pinon pine, 11 ins. in dia., bears S.32°E., 30 lks.
dist. mkd. $\frac{1}{4}$ S 8 B T.

A cedar, 7 ins. dia., bears S.32°30'W., 28 lks.
dist. mkd. $\frac{1}{4}$ S 7 B T.

55.00 Leave ledges, bears NE and SW.

60.00 Top of spur, 450 ft. above sec. cor., bears E. and W.

Desc.

60.50 Leave heavy and enter scattering timber, bears N.20°E. and S.20°W.

72.20 Creek, 1 lk. wide, 2 ins. deep, in bottom of hollow, 150 ft. below spur, course S.70°E.

Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, mkd. on brass cap

T 19 S S 6 in NW.

R 6 E S 5 in NE.

S 8 in SE.; and

S 7 in SW. quadrants; from which

A pinon pine, 12 ins. dia., bears N.74°30'E., 128 lks.
dist. mkd. T 19 S R 6 E S 5 B T.

A cedar, 24 ins. dia., bears S.19°30'E., 118 lks.
dist. mkd. T 19 S R 6 E S 8 B T.

A pinon pine, 14 ins. dia., bears S.46°35'W., 393 lks. dist. mkd. T 19 S R 6 E S 7 B T.

A cedar, 10 ins. dia., bears N.35°25'W., 202 lks.
dist. mkd. T 19 S R 6 E S 6 B T.

Land, mountainous .

Soil, clay ; 3rd rate/

Subdivision of T.19 S., R.6 E.-Continued.

Chains	
	Timber, cedar and pinon pine. undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs.
	S. 89° 56' E., on a random line bet. secs. 5 and 8.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.14	Intersect N. and S. line, 14 lks. N., of the cor. of secs. 4, 5, 8, and 9.7. Thence I run N. 89° 50' W., on a true line bet. secs. 5 and 8. Over mountainous land; through heavy timber and scattering undergrowth. Desc. over ledges.
4.00	Foot of steep descent, bears N. and S. Leave ledges, bears N. and S. Desc. gradually.
21.00	Bottom of Dragon canon, 300 ft. below sec. cor., course S. Asc.
39.80	Road, bears N. and S. 20° E.
40.07	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 5 in N half and S 8 in S half; from which A pinon pine, 6 ins. dia., bears N. 34° E., 157 lks. dist. mkd. $\frac{1}{2}$ S 5 B T. A pinon pine, 6 ins. dia. bears S. 4° E., 180 lks. dist. mkd. $\frac{1}{2}$ S 8 B T.
59.60	Top of ridge, 400 ft. above canon, bears N. and S. Desc.
67.60	Creek, 2 lks. wide, 2 ins. deep, in bottom of canon, 200 ft. below ridge, course S. Asc.

Subdivision of T.19 S.; R.6 E.-Continued.

chains

79.00 Leave heavy and enter scattering timber, bears N. and S.

80.14 The cor. of secs. 5, 6, 7, and 8.

Land, mountainous.

Soil, clay; 3rd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 80.14 chs.

N. 89° 58' W., on a true line bet. secs. 6 and 7.

40.00 Set temp. $\frac{1}{4}$ sec. cor.79.00 Intersect W. bdy. of Tp., 2 lks. N. of the cor. of secs.
1, 6, 7, and 12, heretofore described.

Thence I run

S. 89° 59' E., on a true line bet. secs. 6 and 7.

Over mountainous land; through dense undergrowth.

Desc.

10.00 Bottom of swale, 100 ft. below sec. cor., course NE.

Asc.

38.00 Enter heavy timber, bears N. and S.

39.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 6 in N half
and S 7 in S half; from whichA pinon pine, 16 ins. dia., bears N. 28° 30' E., 30 lks.
dist. mkd. $\frac{1}{4}$ S 6 B T.A pinon pine, 24 ins. dia., bears S. 11° E., 33 lks.
dist. mkd. $\frac{1}{4}$ S 7 B T.

40.50 Leave timber, bears N. and S.

65.00 Top of ridge, 50 ft. above $\frac{1}{4}$ sec. cor., bears NE and SW.
Desc.

70.00 Bottom of swale, 20 ft. below ridge, course S. 20° W.

subdivision of T.19 S., R.6 E.-Continued.

Chains	
Asc.	
79.00	<p>The cor. of secs. 5, 6, 7, and 8.</p> <p>Land, mountainous.</p> <p>Soil, sandy and clay loam; 2nd rate.</p> <p>Timber, cedar and pinon pine.</p> <p>Undergrowth, sage brush and service berry.</p> <p>Good grass for grazing.</p> <p>Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.00 chs.</p> <p>June 11, 1910: At this cor. I set off $23^{\circ}05'N.$, on the decl arc; and at 11 h 59 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $39^{\circ}11'N.$, which is the proper lat. nearly.</p>
	<p>$N.0^{\circ}3'W.$, on a random line bet. secs. 5 and 6.</p>
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.90	<p>Intersect N. bdy. of Tp., 23 lks. west of the corner of secs. 5, 6, 31, and 32. heretofore described.</p> <p>Thence I run</p> <p>$S.0^{\circ}7'W.$, on a true line bet. secs. 5 and 6.</p> <p>Over mountainous land; through scattering timber and dense undergrowth.</p>
Asc.	
14.00	<p>Top of ridge, 100 ft. above cor., bears $N.60^{\circ}E.$ and $S.60^{\circ}W.$</p> <p>Desc.</p>
26.00	<p>Bottom of hollow, 150 ft. below ridge, course E.</p> <p>Asc.</p>
34.00	<p>Top of divide ridge, 150 ft. above hollow, bears E. and W.</p> <p>Desc.</p>
39.90	<p>Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{2} S$ $\frac{1}{2} W$ half</p>

Subdivision of T.19 S., R.6 E.-Continued.

Chains	and S 5 ¹ / ₂ in E half; raise a mound of stone, 2 ft. base, 1 ¹ / ₂ ft. high, N. of cor.
63.00	Wash, 20 lks. wide, 2 ft. deep, in bottom of hollow, 300 ft. below ridge, course N. 80° E. Asc.
68.00	Spur, 100 ft above hollow, bears E. and W. Enter heavy timber, bears E. and W. Desc.
77.60	Enter an old corral, 1 ch. in dia.
79.90	Cor. of secs. 5, 6, 7 and 8. Land, mountainous. Soil, gravelly and rocky; 2nd rate. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.90 chs.

June 11, 1910

General Description.

This township is generally rough and mountainous in the western part, consisting of deep hollows draining southerly into Ferron Canon. The eastern part of the township consists of a high plateau which is quite uneven on top and breaking off on the east, south, and west, 1000 ft. or more to the lower country. The soil is generally sandy and clay loam; 2nd rate; except in the country which

Subdivision of T. 19 S., E. 6 E.-Continued.

is covered with sandstone ledges and boulders.

Perron Creek runs thru the southern part of the township; it is about 1.00 ch. wide and $\frac{1}{2}$ ft. deep at this time of the year, but gets still lower in the latter part of the season and is much higher early in the spring.

Dairy Creek and Stevens Creek, both tributaries of Perron Creek, are about 6 lks. wide and 3 ins. deep.

The stream in Dragon Canon does not reach Perron Creek but sinks in the canon bottom.

There are a few small springs in the eastern part of the township.

There is a heavy growth of cedar and pinion pine over most of the township; also considerable red and white pine on the plateau in the eastern part of the township and some cottonwood timber along Perron Creek.

The undergrowth is sage brush with occasional bunches of service berry, larb, and mountain rush.

There is an old cabin and corral in sec. 25, which has been used by ranchers, but is now abandoned.

At 16.60 chs. W., and 1.50 chs. N. of the south quarter section cor. of sec. 34 is a 6x5 ft. tunnel, 5 ft. long, extending westerly into a 5 ft. coal bed, claimant unknown. This coal is clear, soft, and mixed with a yellow resinous substance which seems to add to its value as a fuel. The value of the improvement is \$35. The coal outcrop bears N. 20° E. and S. 20° W.

Running eastward between secs. 30 and 31, at 45.00 chs. a coal outcrop, three beds of 2 ft. thickness separated by one ft. of shale, has been exposed by three entries, 1.50 chs. south. Also at 47.00 chs., a 4 ft. vein of good coal has been exposed, 1.45 chs. south; claimant, John C. Lemon, Ferron, Emery Co., Utah. Value of the improvement, \$175.

The coal beds found in this township are nearly

Subdivision of T. 19 S., R. 6 E.-Continued.

horizontal and parallel with the great strata of sandstone, from 2 ft. to 500 ft. in thickness. The eastern face of the ledges exposes no bed of coal, while the south face exposes some good veins of varying thickness, in sec. 35. This indicates that the area underlain by these upper beds may not be very extensive, but the beds exposed in secs. 31 and 34 may be more extensive.

From the indications which I studied on the ground I should return secs. 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, and the west half of secs. 18 and 19 as coal land, while secs. 1, 2, 3, 10, 11, 12, 13, and 14 are probably underlain by coal in varying quantities, but sufficient to make the area more valuable for coal than for any other resource.

Clarence S. Jarvis,
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

For list of names and final oath of assistants see book "E", Chainman.

T. 19 S., R. 5 E., Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all

those parts or portions of the _____

_____ of the _____

_____ meridian, _____ of _____, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor

General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____ }

day of _____, 190 _____ }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 190____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____

For final oath of deputy see book "E" T. 19 S. R. 5 E.

_____ of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190____



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, April 3, 190____

The foregoing field notes of the survey of _____ the subdivisional lines of Township No. 19 South, Range No. 6 East of the Salt Lake Base and Meridian, Utah

executed by _____ Clarence S. Jarvis _____ under his contract No. 315, dated _____ November 1, 1909, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas H. Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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Page

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4-679.

BOOK A-362

FIELD NOTES

OF THE SURVEY OF THE

NORTH SOUTH AND WEST BOUNDARIES

of

Township No. 19 South, Range No. 5 East.

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

Clarence S. Jarvis, United States Deputy Surveyor,

Under his Contract No. 315, dated November 1, 1909.

Survey commenced June 11, 1910.

Survey completed June 13, 1910.

North 604-74 ✓ 35-714
South 605-02 ✓
West 1-18-69 ✓
13-28-65 ✓

BOOK A-362

NAMES AND DUTIES OF ASSISTANTS.

Quinby Stewart	Chainman
Karl Keeler	Chainman
verne Nelson	Chainman
James Ollerton	Moundman
Morrille George	Moundman
Milton Fletcher	Axman
Earl Spafford	Axman
Raymond Nelson	Flagman

For preliminary affidavits see book "A" T. 19 S., R. 7 E.

BOOK A-362

INDEX DIAGRAM.

Township 19 South *Range* 6 East

9	7	6	5	4	3
4	1	2	3	7	1
7	4	3	22	21	25
22	21	24	21	24	23
21	20	25	21	20	24
20	21	22	21	20	22
10	11	15	14	10	12
10	16	14	12	11	10

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



North Bdy. T. 19 S., R. 5 E.

Chains

Survey commenced June 11, 1910, and executed with Bausch Lomb, and Saegmuller transit No. 8375, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined tested on the meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah, on April 27, 1910.

I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 18 and 19 S., Rs. 5 and 6 E; latitude $39^{\circ}12'08''$ N., longitude $111^{\circ}20'19''$ W.; I set off $39^{\circ}12'$ N., on the lat. arc; $23^{\circ}06'$ N., on the decl. arc; and at 4 h 59 m p.m. l.m.t., determine with the solar a meridian and mark a point thereof, on a stone firmly set in the ground, 5.00 chs. N. of the cor.

June 11, 1910.

June 12, 1910; At 2 h ¹² m p.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

June 12, 1910, at 7 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}30.6'$ to the west, and mark a point in the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of

North Bdy. T.19 S., R.5-E.-Continued.

Chains the cor.; this mark falls 0.38 ins. east of the meridian established by Polaris observation.

At 8 h 1 m a.m., l.m.t., I set off $39^{\circ}12'N.$, on the lat. arc; $23^{\circ}09'N.$, on the decl. arc; and mark the meridian determined by the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.34 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'19''$ west and $0'18''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 8 h 30 m a.m., is $N.16^{\circ}15'W.$, the angle thus determined gives the mag. decl. $16^{\circ}15'E.$

Beginning at the cor. of Tps. 18 and 19 S., Rs. 5 and 6 E., heretofore described,

Thence I run

West on a true line bet. secs. 1 and 36.

Over mountainous land, through scattering timber and dense undergrowth.

Asc.

3.00 Top of spur, 15 ft. above sec. cor., bears N. and S.
Desc.

4.30 Enter sheep corral, 60 ft. in dia.
Enter heavy timber, bears $N.20^{\circ}W.$ and $S.20^{\circ}E.$

10.00 Leave heavy timber, bears NE. and S.

15.00 Bottom of hollow, 50 ft. below spur, course $S.20^{\circ}E.$

Thence ascend gradually over sage flat.

North Bay. T. 19 S., R. 5 E. -Continued.

Chains

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 36 in N half and S 1 in S half; from which
 An aspen, 8 ins. in dia., bears S. $7^{\circ}45'$ W., 260 lks.
 dist. mkd. $\frac{1}{4}$ S 1 B T.
 No other trees within limit, dig pis, 18x18x12 ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 56.00 Top of spur, 50 ft. above hollow, bears N. and S.
 Desc.
- 60.00 Bottom of hollow, 150 ft. above spur, course S.
 There is a small spring of good water in bottom of this hollow.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 1, 2, 35 and 36. mkd. on brass cap
 T 18 S S 35 in NW.
 R 5 E S 36 in NE.
 R 5 E S 1 in SE; and
 T 19 S R 2 in SW, quadrants; from which
 An aspen, 6 ins. in dia., bears N. $35^{\circ}50'$ E., 150 lks.
 dist. mkd. T 18 S R 5 E S 36 B T.
 A cedar, 5 ins. in dia., bears S. $47^{\circ}20'$ E., 240 lks.
 dist. mkd. T 19 S R 5 E S 1 B T.
 No other trees within limit; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, mountainous.
 Soil, gravelly; 2nd rate.
 Timber, aspen and cedar.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth,
 80.00 chs.

North Bdy. T. 19 S., R. 5 E. Continued.

chains

West on a true line bet. secs. 2 and 35.

Over mountainous land, through scattering undergrowth.

Asc.

21.00 Top of ridge, 150 ft. above sec. cor., bears N. 30° W. and S. 30° E.

Desc.

28.00 Enter scattering timber, bears NW. and SE.

36.25 Spring branch, 2 lks. wide, 1 in. deep, course S.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 35° in N half and S 2° in S half; from which

A pinon pine, 16 ins. in dia., bears N. 38° W., 36 lks. dist., mkd. $\frac{1}{4}$ S 35° B T.

A cedar, 24 ins. in dia., bears S. 37° W., 55 lks. dist., mkd. $\frac{1}{4}$ S 2° B T.

53.30 Bottom of hollow, 300 ft. below ridge, course S. 10° W.
Asc.

61.00 S. point of spur, 200 ft. above hollow, bears N. and S.
Desc.

72.00 Leave timber, bears NW. and SE.

Thence over smooth slope drains SW.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 34 and 35.. mkd. on brass cap

T 18 S S 34° in NW.

R 5 E S 35° in NE.

R 5 E S 2° in SE; and

T 19 S S 3° in SW; quadrants; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar and pinon pine.

North Bdy. T. 19 S., R. 5 E. -Continued.

Chaina Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, 80.00 chs.

West on a true line bet. secs. 3 and 34.

Over mountainous land, through scattering timber.

Desc.

17.00 Enter scattering timber, bears N. and S.

18.50 Cross small alkline marsh, 100 lks. across on line, in head of small hollow, course S. 80° W., 300 ft. below sec. cor.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 34 in N half and S 3 in S half; from which

A pinon pine, 17 ins. in dia., bears N. 62° 40' W., 235 lks. dist. mkd. $\frac{1}{4}$ S 34 B T.

A pinon pine, 7 ins. in dia., bears S. 85° 05' W., 221 lks. dist. mkd. $\frac{1}{4}$ S 3 B T.

44.00 Bottom of hollow, 50 ft. below $\frac{1}{4}$ sec. cor., course N. 80° W. Continue descent.

57.00 Creek, 20 lks. wide, 6 ins. deep in bottom of Bear Creek Canon, 500 ft. below $\frac{1}{4}$ sec. cor., course S. 30° E.

A bridge for stock to cross is about 1.50 chs. S.

Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground for cor. of secs. 3, 4, 33 and 34. mkd. on brass cap

T 18 S S 33 in NW.

R 5 E S 34 in NE.

R 5 E S 3 in SE; and

T 19 S S 4 in SW; quadrants; from which

North Bdy. T. 19 S., R. 5 E. -Continued.

Chains

An oak, 4 ins. in dia., bears N. 88° 50' E., 247 lks.
dist..mkd. T 18 S R 5 E S 34 B T.

An oak, 4 ins. in dia., bears S. 89° 20' E., 254 lks,
dist..mkd. T 19 S R 5 E S 3 B T.

A pinon pine, 4 ins. in dia., bears S. 15° 20' W., 194
lks. dist..mkd. T. 19 S R 5 E S 4 B T.

No other trees within limit; raise a mound of stone,
2 ft. base, 1½ ft. high N. of cor.

Land, mountainous,

Soil; gravelly; 2nd rate.

Timber, pinon pine and oak.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, 80.00 chs.

West on a true line bet. secs. 4 and 33.

Over mountainous land, through scattering timber, and
dense undergrowth.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for ¼ sec. cor..mkd. on brass cap, ¼ S 33 in N half
and S 4 in S half; from which

A pinon pine, 4 ins. in dia., bears S. 44° E., 77 lks.

dist..mkd. ¼ S 4 B T.

No other trees within limit; raise a mound of stone,
2 ft. base, 1½ ft. high, N. of cor.

42.25 Top of S. point of ridge, 300 ft. above ¼ sec. cor., bears
N. and S.

Desc.

66.35 Bottom of hollow, 200 ft. below ridge, course S.

There is a small seep of water in this hollow.

Asc.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the

North bdy. T. 19 S., R. 5 E-Continued.

Chains

ground, for cor. of secs. 4, 5, 32. and 33.. mkd. on brass cap

T 18 S S 32 in NW.

R 5 E S 33 in NE.

R 5 E S 4 in SE; and

T 19 S S 5 in SW, quadrants; from which

An oak, 4 ins. in dia., bears N. 43° 40' E., 18 lks. dist.
mks. T 18 S R 5 E S 33 B T.

An oak, 4 ins. in dia., bears S. 2° E., 28 lks. mkd.

T 19 S R 5 E S 4 B T.

An oak, 4 ins. in dia., bears S. 9° 45' W., 27 lks. dist
mka. T 19 S R 5 E S 5 B T.An oak, 4 ins. in dia., bears N. 38° 25' W., 38 lks. dist
mka. T 18 S R 5 E S 32 B T.

Land, mountainous,

Soil gravelly; 2nd rate.

Timber, pinon pine and oak.

undergrowth, sage brush, magohany, oak and service berries.

Good grass for grazing.

Mountainous land, of land covered with dense undergrowth
80.00 chs.

West on a true line bet. secs. 5 and 32.

Over mountainous land though scattering timber and
dense undergrowth.

Asc.

5.00 Top of ridge, 40 ft. above sec. cor., bears N. and S.

Desc.

14.35 East brink of land slide, bears N. and S.

22.60 Hollow in land slide, 200 ft. below spur, course S.

There is a small stream of water in this hollow.

40.00 set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 32 in N

H.bdy.T.19 S.,R.5 E.-Continued.

chains and S 5 in S half;raise a mound of stone,2 ft.base,1½ ft high,H.of cor.

74.50 Enter heavy timber,bears N.60°W.and S.60°E.

77.00 Left bank of McEwan Creek channel;course S.70° E.

78.80 Right bank of Creek.

80.00 Set an iron post, 3 ft.long,3 ins.in dia.,24 ins.in the ground,for cor.of secs.32,33 4 and 5..mkd.on brass cap

T 18 S S 32 in NW.

R 5 E S 33 in NE.

R 5 E S 4 in SE;and

T 19 S S 5 in SW,quadrants; from which

A red pine,28 ins.in dia.,bears N.31°E.,17 lks. dist..mkd. T 18 S R 5 E S 33 B T.

A red pine,11 ins.in dia.,bears S.83°30'E.,22 lks.dist..mkd.T 19 S R 5 E S 4 B T.

A red pine,18 ins.in dia.,bears S.69°W.,28 lks. dist..mkd.T 19 S R 5 E S 5 B T.

A red pine,14 ins.in dia.,bears S.72°30'W.,30 lks.dist..mkd. T 18 S R 5 E S 32 B T.

Land,mountainous.

Soil,gravelly;2nd rate.

Timber,cedar and red pine.

Undergrowth,oak brush,service berries and sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth
80.00 chs.

West on a true line bet.secs.6 and 31.

Over mountainous land,through heavy timber and scattering undergrowth.

Asc.

16.25 Leave heavy timber and enter dense undergrowth,bears

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North Bdy. T. 19 S., R. 5 E. - Continued.

Chains. N. 60° W. and S. 60° E.

20.00 Top of spur, 500 ft. above sec. cor., bears N. 60° W. and
S. 60° E. Desc.

24.00 Head of swale, 15 ft. below spur, course SE. Enter heavy
timber, bears W. and S. 60° E.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 31 in N.
half and S 6 in S. half; from which

An aspen 6 ins. in dia., bears N. 73° E. 129 lks. dist.
mkd. $\frac{1}{4}$ S 31 B T

An aspen 7 ins. in dia., bears S. 23° E. 77 lks. dist.
mkd. $\frac{1}{4}$ S 6 B T

43.00 Leave timber, bears N. and S.

48.00 Top of spur, 150 ft. above $\frac{1}{4}$ sec. cor., bears N. 60° W.
and S. 60° E.

51.00 Enter heavy timber, bears N. and S.

52.50 Wash, 1 lk. wide, 5 ins. deep, course SE.

A small spring, 80 lks. wide, 300 lks. long, bears NW.
about 4 chs. dist. from this point.

59.50 Leave timber, bears NW. and SE.

84.37 E. edge of small lake about 3 ft. deep, bearing N. and S.
and extending west about 3.13 chs.

84.74 Intersect W. bdy. of Tp. 35. 71 chs. N. of the cor. of Tps. 18
and 19 S., Rs. 4 and 5 E., which is a limestone 6 x 8
x 5 ins. above ground, firmly set and mkd. and witnessed
as described by the surveyor general.

As point for closing cor. falls in lake, where post can-
not be set, I return to 84.13 chs., and

Set an iron post 3 ft. long, 3 ins. dia., 24 ins. in the
ground, for witness cor. to closing cor. of Tps. 18 and
19 S., R. 5 E. mkd. on brass cap,

T 18 S in N.

T 19 S in S.

CC R. 4 E. S. 36 S 1 in W. half;

:10:

North Bdy. T. 19 S., R. 5 E. - Continued.

Chains. WC R 5 E S 31 in NE. and S 6 in SE quadrants; from which
 A red pine 24 ins. dia., bears N. 16° E. 19 lks. dist.
 mkd. T 18 S R 5 E S 31 B T
 A red pine 17 ins. dia. bears S. 2° 30' E. 54 lks. dist.
 mkd. T 19 S R 5 E S 6 B T
 I destroy all marks on the old cor. of Tps. 18 and 19 S.
 Rs. 4 and 5 E., which pertain to Tp. 18 and 19 S., R. 5
 E.
 Land, mountainous.
 Soil, sandy and clay loam; 2d rate.
 Timber, pine and aspen.
 Mountainous, or heavily timbered land 84.74 chs.

June 12, 1910.

SOUTH BOUNDARY T. 19 S., R. 5 E.

June 13, 1910: At 8 h. 0 m. a. m. I set off 37° 07'
 N. on the lat. arc; 23° 12' N. on the decl. arc; and deter-
 mine a meridian with the solar at the cor. of Tps. 19
 and 20 S. Rs. 5 and 6 E., heretofore described.
 Thence I run.

West on a true line between secs. 1 and 36,
 Descending over mountainous land; through dense under-
 growth.

20.00 Enter scattering timber, bears N. and S.

21.40 Creek 2 lks. wide, 1 in. deep, in bottom of hollow, 200 ft.
 below sec. cor., course N. 30° E. Asc.

26.00 Top of spur, 50 ft. above hollow, bears N. 25° E. and S.
 25° W. Desc.

27.40 Creek, 5 lks. wide, 4 ins. deep, in bottom of Stevens
 Creek Canon, 50 ft. below spur, course N. 40° E.

40.00 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the
 ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 36 in N.

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South Boundary T. 19 S., R. 5 E. - Continued.

Chains.	half and S 1 in S. half; from which A pinon pine, 6 ins. in dia., bears N. 56° W. 61 lks. dist., mkd. $\frac{1}{4}$ S 36 B T A pinon pine, 6 ins. in dia., bears S. 13° E. 59 lks. dist., mkd. $\frac{1}{4}$ S 1 B T Asc. 76.00 Top of ridge, 300 ft. above canon, bears NE. and SW. 80.00 Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, mkd. on brass cap T 19 S S 35 in NW. R 5 E S 36 in NE. R 5 E S 1 in SE.; and T 20 S S 2 in SW. quadrants; from which A red pine 16 ins. in dia., bears N. 40° 50' E. 290 lks. dist., mkd. T 19 S R 5 E S 36 B T An aspen 5 ins. in dia., bears N. 48° 45' W. 154 lks. dist., mkd. T 19 S R 5 E S 35 B T No other trees within limits; raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high W. of cor. An old cabin bears N. 54° 12' W. 35 chs. dist. A corral bears S. 46° 15' W. 35 lks. dist. Land, mountainous. Soil, gravelly; 3d rate. Timber, red pine and pinon pine. Undergrowth, sage and buck brush. Mountainous land, or land covered with dense undergrowth 80.00 chs. West on a true line bet. secs. 2 and 35, Over mountainous land; through scattering timber and dense undergrowth. Desc. 5.00 Enter heavy timber, bears N. and S.
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South Bdy. T. 19 S., R. 5 E.- Continued.

Chains.	
21.40	Road, bears NW. and SE.
24.00	Enter marsh, bears N. and S.
35.10	Leave marsh, bears N. and S. Leave timber, bears NW. and SE.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 35 in N. half and S 2 in S. half; raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
54.00	Ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. and S. Enter timber, bears N. and S. Desc.
58.00	South end of lake, 2 chs. long, by 1 ch. wide.
80.00	Set an iron post 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 2, 3, 34, and 35, mkd. on brass cap, T 18 S S 34 in NW. R 5 E S 35 in NE. R 5 E S 2 in SE.; and T 20 S S 3 in SW. quadrants; from which An aspen, 5 ins. in dia., bears N. 79° E. 32 lks. dist., mkd. T 19 S R 5 E S 35 B T An aspen 5 ins. in dia., bears S. 58° E. 21 lks. dist. mkd. T 20 S R 5 E S 2 B T An aspen 10 ins. in dia., bears S. 56° W. 54 lks. dist. mkd. T 20 S R 5 E S 3 B T An aspen 8 ins. in dia., bears N. 41° W. 101 lks. dist. mkd. T 19 S R 5 E S 34 B T Land, mountainous. Soil, gravelly; 2nd rate. Timber, cedar and aspen. Undergrowth, sagebrush and bitter brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth 80.00 chs.
10.90	West on a true line bet. secs. 3 and 34, Over mountainous land; through heavy timber and dense undergrowth. Asc. Leave heavy timber and enter scattering, bears N. and S.

South bdy. T.19 S., R.5 E.-Continued.

Chains

- 15.25 Top of ridge, 150 ft. above sec. cor., bears N. 20° W. and S. 20° E.
Desc.
- 23.00 Bottom of hollow, 100 ft. below ridge, course N. 20° E.
Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 34 in N half and S 3 in S half; from which
An aspen, 16 ins. in dia., bears N. 35° E., 216 lks. dist.. mkd. $\frac{1}{4}$ S 34 B T.
An aspen, 12 ins. in dia., bears S. 38° E., 98 lks. dist. mkd. $\frac{1}{4}$ S 3 B, T.
- 49.00 Begin abrupt ascent, bears N. and S.
- 78.00 Top of ridge, 500 ft. above $\frac{1}{4}$ sec. cor., bears N. and S.
- 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 3, 4, 33 and 34.. mkd. on brass cap
T 19 S S 33 in NW.
R 5 E S 34 in NE.
R 5 E S 3 in SE; and
T 20 S S 4 in SW. quadrants; from which
A balsam, 5 ins. in dia., bears N. 55° E., 9 lks. dist. mkd. T 19 S R 5 E S 34 B T.
A balsam, 12 ins. in dia., bears S. 55° E., 33 lks. dist.. mkd. T 20 S R 5 E S 3 B T.
A balsam, 24 ins. in dia., bears S. 55° W., 12 lks. dist.. mkd. T 20 S R 5 E S 4 B T.
A balsam, 7 ins. in dia., bears N. 1° W., 11 lks. dist.. mkd. T 19 S R 5 E S 33 B T.
- Land, mountainous.
- Soil; gravelly; 2nd rate.
- Timber, balsam and pinon pine and aspen.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, or heavily timbered land, 80.00 chs.

South Bdy. T. 19 S., R. 5 E -Continued.

Chains

June 13, 1910: At this cor. I set off $25^{\circ}13'N.$, on the decl. arc; and at 12 h 0 m a.m., l.m.t., I observe the sun on the meridian the resulting lat. is $39^{\circ}07'N.$, which is the proper lat. nearly.

West on a true line, bet. secs. 4 and 33.

Over mountainous land, through heavy timber and scattering undergrowth.

Desc. abruptly.

- 1.25 Leave heavy timber and enter dense undergrowth, bears N. and S.
- 23.00 Bottom of hollow, 200 ft. below sec. cor., course N. Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 33° in N half and S 4° in S half; dig pits, $18 \times 18 \times 12$ ins. E. and W. of post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 48.00 Enter heavy timber, bears N. and S.
- 77.00 Top of divide ridge, 200 ft. above $\frac{1}{4}$ sec. cor., bears N. $20^{\circ}W.$ and S. $20^{\circ}E.$
- 80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of secs. 4, 5, 32 and 33. mkd. on brass cap
T 19 S S 32° in NW.
R 5 E S 33° in NE.
R 5 E S 4° in SE; and
T 20 S S 5° in SW. quadrants; from which
A white pine, 10 ins. in dia., bears N. $4^{\circ}10'E.$, 33 lks. dist. mkd. T 19 S R 5 E S 33° B T.
A white pine, 16 ins. in dia., bears S. $66^{\circ}E.$, 37 lks. dist. mkd. T 20 S R 5 E S 4° B T.

South Bdy. T. 19 S., R. 5 E S-Continued.

Chians A white pine, 8 ins. in dia., bears S. 1° W., 57 lks.
dist. mkd. T. 20 S R 5 E S 5 B T.

A white pine, 30 ins. in dia., bears N. 69° W., 55
lks. dist. mkd. T. 19 S R 5 E S 32 B T.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, white pine, balsam and aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous, or heavily timbered land, 80.00 chs.

West on a true line, bet. secs. 5 and 32.

Over mountainous land, through heavy timber and scattering
undergrowth,

Desc.

1.00 Leave heavy timber and enter dense undergrowth, bears NW.
and SE.

32.20 Creek, 3 lks. wide, 2 ins. deep, in bottom of hollow, 150 ft.
below sec. cor., course SE.

Asc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 32 in N half
and S 5 in S half; dig pits, 18x18x12 ins. E. and W. of the
post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, N. of cor.

62.00 Top of ridge, 150 ft. above $\frac{1}{4}$ sec. cor., bears NW and SE.
Enter scattering timber, bears NW. and SE.

Desc.

66.40 Bottom of hollow, 100 ft. below ridge, course N. 20° W.

Asc.

76.00 Top of ridge, 75 ft. above hollow, bears N. and S.

80.00 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the

South Bdy. T. 19 S., R. 5 E. S. - Continued.

Chains

ground, for cor. of secs. 5, 6, 31 and 32. mkd. on brass cap

T 19 S S 31 in NW.

R 5 E S 32 in NE.

R 5 E S 5 in SE; and

T 20 S S 6 in SW, quadrants; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth
80.00 chs.

West on a true line, bet. secs. 6 and 31.

Over mountainous land, thorough scattering timber and
dense undergrowth.

Desc.

1.60 Bottom of swale, 10 ft. below sec. cor., course S.

30.00 Enter heavy timber, bears NE. and SW.

Asc.

40.00 Top of divide ridge, 300 ft. above swale, bears N. 70° E.
and S. 70° W.Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 31 in N
half and S 6 in S half; from whichA white pine, 6 ins. in dia., bears N. 74° 30' E., 63
lks. dist. mkd. $\frac{1}{2}$ S 31 B T.A white pine, 6 ins. in dia., bears S. 1° W., 93 lks.
dist. mkd. $\frac{1}{2}$ S 6 B T.

Desc.

South Bdy.T.19 S.,R 5 E-Continued.

Chains

84.74 Set temp.cor.of Tps.19 and 20 S.,R.5 E.

Note: Later the permanent cor. was set at 85.22 chs. for description of cor. see page 19, this book.

Land, mountainous .

Soil, sandy and clay; 2nd rate.

Timber, cedar and pine.

Undergrowth, sage brush and service berry.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
85.22 chs.

Fractional West bdy.T.19 S.,R.5 E.

Begin at the temp.cor. of Tps.19 and 20 S.,R.5 E., just set and run

North, on random line along west bdy. of Tp., setting temp.

$\frac{1}{4}$ sec. and sec. cors. at intervals of 40.00 chs., and at

98.69 chs. fall 48 lks. East of the cor. of secs. 19, 24, 25,

and 30, which is a limestone, 6x12x8 ins., above ground,

firmly set, and mkd. and witnessed as described by the

surveyor general. I destroy marks pertaining to Range 5 E.

Thence, I run

South, on a true line along west bdy. sec. 30.

Over, mountainous land, through heavy timber. /.

.50 Creek, 1 lks. wide, 3 ins. deep, in bottom of hollow, course
N 60° E.

Asc. over a series of springs and springy ground.

5.00 Leave springy ground, bears E. and W.

18.69 Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the
ground, for cor. of secs. 30 and 31, mkd. on brass cap.

West bdy. T. 19 S., R. 5 E. - Continued.

Chains

T 19 S in N half .

R 5 E S 30 in NE.

R 5 E S 31 in SE. quadrants; from which

A red pine, 12 ins. dia., bears N. 63° E., 22 lks.

dist. mkd. T 19 S R 5 E S 30 B T.

A white pine, 5 ins. dia., bears S. 25° 30' E., 12 lks.

dist. mkd. T 19 S R 5 E S 31 B T.

Land, mountainous.

Soil, sandy and black loam; 2nd rate.

Timber, pine and aspen.

Undergrowth, willows, service berry, and rose bushes.

Good grass for grazing.

Mountainous or heavily timbered land, 18.69 chs.

South, on a true line along West bdy. sec. 31 .

Over mountainous land; through heavy timber .

Asc.

5.50 Base of limestone ledge, 100 ft. high, bears E. and W.

7.00 Top of spur, 200 ft. above cor., bears N. 60° W. and S. 60° E.

Leave timber, bears N. 60° W. and S. 60° E.

Desc.

12.00 Bottom of hollow, 100 ft. below ridge, course E.

Spring branch 2 lks. wide, 1 in. deep in bottom,

Asc.

22.00 Top of ascent, brink of mountain top, 300 ft. above hollow,
bears N. 75° W. and S. 75° E.

Thence over rolling mountain top .

29.00 Enter heavy timber, bears NW and SE.

30.50 Leave timber, bears NW and SE.

35.00 Desc. from mountain top, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

West bdy. of T.19 S., R.5 E.-Continued.

Chains

ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ in W half and S 31 in E half; from which .

A balsam, 8 ins. dia., bears N. 44° E., 386 lks.

dist. mkd. $\frac{1}{4}$ S 31 B T.

68.75 Bottom of hollow, 400 ft. below ridge, course E.

Asc.

76.50 Enter heavy timber, bears E. and W.

80.00 Intersect S. bdy. of Tp. 48 lks. west of the temp. cor. of Tps. 19 and 20 S., R. 5 E., and 85.22 chs. West of the cor. of secs. 5, 6, 31, and 32.

Set an iron post, 3 ft. long, 3 ins. in dia., 24 ins. in the ground, for cor. of Tps. 19 and 20 S., R. 5 E. mkd. on brass cap.

T 19 S R 5 E S 31 in NE.; and

T 20 S R 5 E S 6 in SE. quadrants; from which

A balsam, 8 ins. dia., bears N. 76° E., 18 lks.

dist. mkd. T 19 S R 5 E S 31 B T.

A balsam, 12 ins. dia., bears S. 50° E., 38 lks.

dist. mkd. T 19 S R 5 E S 6 B T.

Land, mountainous .

Soil, sandy and black loam, 2nd rate.

Timber, pine and aspen.

Undergrowth, service berry and willows.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

June 13, 1910.

Boundaries of T.19 S., R.5 E.

Boundaries of T.19 S., R.5 E:

Latitudes, departures, and closing errors.

Line designated	Course	Distance	Latitudes		Departures	
			N.	S.	E.	W.
		chs.	chs.	chs.	chs.	chs.
W.bdy.T.19 S., R.5 E.	North	480.32	480.32			
N.bdy.T.19 S., R.5 E.	East	484.74			484.74	
E.bdy.T.19 S., R.5 E.	South	480.00		480.00		
S.bdy.T.19 S., R.5 E.	West	485.22				485.22
Convergency					.59	
Totals			480.32	480.00	485.33	485.22
Error in lat.			480.00		485.22	
Error in dep.				.32		.11

General Description.

Note. For General description see notes of Subdivision of Township.

June 13, 1910.

Clarence S. Jarvis
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Lawrence S. Jarvis

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the fractional S. bdy. T. 19 S. R. 7 E.; E. S. W. and N. bdy. T. 19 S. R. 6 E.; S. N. and fractional W. bdy. T. 19 S. R. 5 E. of the Salt Lake Base and Meridian, Utah showing the respective capacities in which they acted:

Quinby Stewart....., Chairman.
Karl Keeler, and Verne Nelson....., Chainmen.
James Ollerton....., Moundman.
Morrille George....., Moundman.
Milton Fletcher....., Axman.
Earl Spafford....., Axman.
Raymond Nelson....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Lawrence S. Jarvis

....., United States Deputy Surveyor, in surveying all those parts or portions of the fractional S. bdy. T. 19 S. R. 7 E.; E. S. W. and N. bdy. T. 19 S. R. 6 E.; S. N. and fractional W. bdy. T. 19 S. R. 5 E.

..... of the Salt Lake Base and meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Quinby Stewart....., Chairman.
Karl Keeler Verne Nelson....., Chainmen.
James Ollerton....., Moundman.
Morrille George....., Moundman.
Milton Fletcher....., Axman.
Earl Spafford....., Axman.
Raymond Nelson....., Flagman.

Subscribed and sworn to before me this 24 }
 day of June, 1910 }



Robert Woolley
 notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Clarence S. Jarvis, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hill, United States Surveyor General for Utah, bearing date of the 11th day of November, 1909, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the fractional S. 1/4 Sec. 19, T. 19, S. R. 6 E.; S. 1/4 Sec. 19, T. 19, S. R. 6 E.; S. 1/4 Sec. 19, T. 19, S. R. 6 E.; S. 1/4 Sec. 19, T. 19, S. R. 6 E. of the Salt Lake Base and meridian, in the State of Utah, which are represented in the field notes having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Clarence S. Jarvis
United States Deputy Surveyor

Subscribed by said Clarence S. Jarvis, and sworn to before me
this 11 day of Sept., 1910.

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000000
000000

Thomas Hill
U.S. Surveyor General

APPROVAL.

for Utah.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, April 3, 1911

The foregoing field notes of the survey of North, South, and West Boundaries of Township No. 19 South, Range No. 6 East of the Salt Lake Base and Meridian, Utah,

executed by Clarence S. Jarvis under his contract No. 313, dated November 1, 1909, 19, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hill
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in Utah, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-362

FIELD NOTES

M.S.B.

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 19 South, Range No. 5 East

Of the Salt Lake Base, and Meridian,

State of Utah

AS SURVEYED BY

Clarence S. Jarvis, United States Deputy Surveyor,

Under his Contract No. 315, dated November 1, 1909, ~~XXX~~

Survey commenced June 14, 1910, ~~XXX~~

Survey completed June 23, 1910, ~~XX~~

NAMES AND DUTIES OF ASSISTANTS.

Quinby Stewart

Chainman

Karl Keeler

Chainman

Verne Nelson

Chainman

James Ollerton

Moundman

Morrille George

Moundman

Milton Fletcher

Axman

Earl Spafford

Axman

Raymond Nelson

Flagman

For preliminary affidavits see book "C" T. 19 S., R. 6 E.

BOOK A-362

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Meanders Page

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, *Chainman.*_____, *Chainman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Moundman.*_____, *Moundman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, *Axman.*_____, *Axman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, *Flagman.*

Subscribed and sworn to before me this _____ }
day of _____, 19 _____ }



Subdivision of T.19 S., R.5 E.

Chains Survey commenced June 13, 1910, and executed with a Bausch Lomb, & Saegmuller light mountain transit, No. 8375 with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to a half minutes of arc, and one minute is least count of the verniers of the latitude and declination arcs. The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, April 27, 1910.

I examine the adjustments of the transit, and correct the level and collimation errors, then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of Tp., heretofore described, latitude $39^{\circ}06'55''$ N. longitude $111^{\circ}21'26''$ W. I set off $39^{\circ}07'$ N. on the lat. arc; $23^{\circ}14'$ N. on the decl. arc; and at 5h 0m p m l m t, determine with the solar a meridian and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of the cor.

June 13, 1910

June 14, 1910 At 2 h 01 m a.m., l.m.t. I observe Polaris at eastern elongation in accordance with the manual, and mark a point in the line thus determined by a tack driven in a wooden plug set in the ground 5.00 chs. N. of the cor.

June 14, 1910, At 7h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}31'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor., this mark falls 0.27 ins. east of the meridian established by the solar.

At 8 h 0 m a.m., l.m.t., I set off $39^{\circ}07'$ N. on the lat. arc; $23^{\circ}16'$ N. on the decl. arc; and mark a point in the

Subdivision of T.19 S., R.5 E.-Continued.

Chains meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor. this mark falls 0.25 ins. east of the meridian established by Polaris observation.

The solar apparatus, by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ} 14''$ west and $0^{\circ} 13''$ east of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 5h 39 m a.m., l.m.t., is $N. 16^{\circ} 15' W.$ the angle thus determined gives the mag. decl. $16^{\circ} 15' E.$

From the cor. of secs. 1, 2, 35 and 36, on the S. bdy. of Tp., I run $N. 0^{\circ} 1' W.$, bet. secs. 35 and 36.

Over mountainous land, through scattering timber and dense undergrowth.

Desc.

3.00 Enter heavy timber, bears NE. and SW.

7.40 Leave timber, bears NE. and SW.

14.00 Enter heavy timber, bears NE. and SW.

18.00 Leave timber, bears NE. and SW.

21.00 Enter heavy timber, bears E. and W.

22.50 Leave timber, bears E. and W.

28.75 Creek, 3 lks. wide, 6 ins. deep, in bottom of Dairy Creek Canon, 200 ft. below sec. cor., course E.

Asc.

33.50 Top of ridge, 200 ft. above Canon, bears E. and W.

Desc.

36.00 Bottom of hollow, 50 ft. below ridge, course E.

Subdivision of T.19 S., R.5 E.--Continued.

Chains	Asc.
38.00	Enter heavy timber, bears E. and W.
39.70	Leave timber, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 35 \checkmark in W half and S 36 \checkmark in E half; from which An aspen, 4 ins. in dia., bears E ast 12 lks. dist.. mkd. $\frac{1}{4}$ S 36 \checkmark B T. An aspen, 5 ins. in dia., bears S. 67° 15' W., 9 lks. S dist.. mkd. $\frac{1}{4}$ S 35 \checkmark B T.
49.00	top of spur, 200 ft. above hollow, bears E. and W. Desc.
61.00	bottom of hollow, 100 ft. below spur, course E. Asc.
75.00	Top of ridge, 200 ft. above hollow, bears E. and W. Desc,
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 25, 26, 35 and 36.. mkd. on brass cap T 19 S S 26 in NW. R 5 E S 25 in NE. S 36 \checkmark in SE; and S 35 \checkmark in SW, quadrants; from which A pine, 8 ins. in dia., bears N. 78° E., 12 lks. dist. mkd. T 19 S R 5 E S 25 \checkmark B T. No other trees witin limit; therefore, raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous, Soil, rocky; 4th rate. Timber, aspen and red pine. Undergrowth, sage brush. Good grass for grazing. Mountinaious land, of land covered with dense undergrow- wth, 80.00 chs.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	
	East on a random line bet.secs.25 and 36.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.24	Intersect the E. Bdy. of Tp.at. the cor.of secs.25,30,31 and 36, heretofore described. Thence I run West on a true line bet.secs.25 and 36. Over mountainous land,through heavy timber and scatter- ing undergrowth. Desc.
13.00	Bottom of hollow,150 ft.below sec.cor.,course S. Asc.
39.25	Top of ridge,500 ft.above hollow,bears N.and S. Desc.
40.12	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 25 in N half and S 36 in S half;from which A pinon pine,4 ins.in dia.,bears N.88°E.,82 lks. dist..mkd. $\frac{1}{4}$ S 25 B T. A pinon pine,5 ins.in dia.,bears S.79°39'E.,88 lks.dist..mkd. $\frac{1}{4}$ S 36 B T.
43.00	Head of hollow,100 ft.below ridge,course S. Asc.
45.00	Top of spur,50 ft.above hollow,bears N.70°E.and S.70°W. Continue ascent.
80.24	Cor.of secs.25,26,35 and 36. Land,mountainous. Soil,rocky;4th rate. Timber,cedar and pinon pine. Undergrowth,sage brush and mountain rush. Good grass for grazing.

Subdivision of T.19 S., R.5 E.-Continued.

Chain	Mountainous, or heavily timbered land, 80.24 chs.
	N.0°1'W., on a true line bet. secs. 25 and 26.
	Over mountainous land, through scattering timber and dense undergrowth.
	Desc.
2.25	Wash, 1 lks. wide, 6 ins. deep, in bottom of hollow, 50 ft. below sec. cor., course E.
	Asc.
24.00	Top of spur, 150 ft. above hollow, bears E. and W.
	Desc.
28.00	Wash, 2 lks. wide, 8 ins. deep, in bottom of hollow, 100 ft. below spur, course E. There is a small seep of water in this hollow.
	Asc.
36.00	Top of spur, 150 ft. above hollow, bears E. and W.
	Desc.
38.00	Enter heavy timber, bears E. and W.
39.00	Bottom of hollow, 50 ft. below spur, course SE.
40.00	Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor... mkd. on brass cap $\frac{1}{4}$ S 26° in W half and S 25° in E half; from which
	An aspen, 4 ins. in dia., bears N.76°E., 16 lks. dist.. mkd. $\frac{1}{4}$ S 25° B.T.
	An aspen, 4 ins. in dia., bears S.66°30'W., 36 lks. dist.. mkd. $\frac{1}{4}$ S 26° B.T.
41.00	Leave timber, bears E. and W.
45.50	Top of ridge, 150 ft. above hollow, bears E. and W.
	Desc.
52.50	Enter heavy timber, bears E. and W.
66.00	Head of hollow, 300 ft. below ridge, course NE.
	Asc.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

72.00 Top of spur, 50 ft. above hollow, bears N.70°E., and S.70°W.
Desc.

78.25 Bottom of hollow, 200 ft. below spur, course N.80°E.
Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground for cor. of secs. 23, 24, 25 and 26. mkd. on brass cap
T 19 S S 23[✓] in NW.
R. 5 E S 24[✓] in NE.
S 25[✓] in SE; and
S 26[✓] in SW, quadrants; from which
A red pine, 8 ins. in dia., bears N.66°20'E., 344
lks. dist..mkd. T 19 S R 5 E S 24[✓] B T.
A red pine, 7 ins. in dia., bears S.45°25'E., 92
lks. dist..mkd. T 19 S R 5 E S 25[✓] B T.
A red pine, 14 ins. in dia., bears S.7°15'W., 185
lks. dist..mkd T 19 S R 5 E S 26[✓] B T.
A cedar, 4 ins. in dia., bears N.18°30'W., 135
lks. dist..mkd T 19 S R 5 E S 23[✓] B T.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar and red pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

June, 14, 1910: At this cor. I set off 23°16'N., on the decl.
arc; and at 12 h 0 m a.m., m.l.t., I observe the sun
on the meridian, the resulting lat. is 39°09'N., which
is the proper lat. nearly.

East on a random line bet. secs. 24 and 25.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.26	Intersect the E. Bdy. of Tp., 14 lks. N. of the cor. of secs. 19, 24, 25 and 30. heretofore described. Thence I run N. $89^{\circ}54'$ W. on a true line bet. secs. 24 and 25. Over mountainous land, thorough heavy timber and scatter- ing undergrowth. Asc. over ledges.
8.00	Top of spur, 100 ft. above sec. cor., bears N. and S. Desc. over ledges.
15.00	Bottom of hollow, 300 ft. below spur, course NE. Asc. over ledges.
20.00	Leave ledges, bears NE. and SW. Leave timber, bears NE. and SW. Enter flat, bears NE. and SW. Enter dense sage brush.
40.13	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock bottom and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cup $\frac{1}{4}$ S 24 in N half and S 25 in S half; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
48.00	Leave flat, bears NE. and S. 60° E. Enter timber, bears NE. and SW.
60.00	Top of ridge, 700 ft. above hollow, bears NE. and SW. Desc.
72.50	Bottom of hollow, 200 ft. below ridge, course N. Continue descent.
76.00	Bottom of hollow, 400 ft. above ridge, course N. 80° E. Asc.
80.26	Cor. of secs. 23, 24, 25 and 26. Land, mountainous, Soil, rocky; 4th rate. Timber, cedar and pinon pine. Undergrowth, sage brush.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	Good grass for grazing.
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Mountainous, or heavily timbered land, 80.26 chs.

U.S. G.P.O. : N. O. 0-1 W. Bet. secs. 23 and 24.

Over mountainous land, through scattering timber and dense undergrowth.

Asc.

17.00 Top of ridge, 250 ft. above sec. cor., bears N. 60° E. and
S. 80° W.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 23° in W half and S 24° in E half; from which

A pinon pine, 11 ins. in dia., bears N. 55° E., 35
lks. dist. mks. $\frac{1}{4}$ S 24° E T.

A pinon pine, 14 ins. in dia., bears N. 75° W., 18
lks. dist. mkd. $\frac{1}{4}$ S 23° E T.

60.00	Leave timber, bears NE. and SW.
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73.00	Enter timber, bears E. and W.
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80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 13, 14, 23 and 24..mkd. on brass cap

T 19 S S 14 in NW.

R 5 E S 13 in NE.

S 24^v in SE. and

S 23 in SW quadrants: from which

A pinon pine, 8 ins. in dia., bears N. 27° E., 21 lks.
dist. mkd. T 19 S R 5 E S 13 B T.

A pinon pine, 14 ins. in dia., bears S. 63° E., 16
lks. dist. mkd. T 19 S R 5 E S 24^v B T.

A pinon pine, 10 ins. in dia., bears S. 61° W., 86

Subdivision of T.19 S., R.5 E-Continued.

Chains

1ks.dist..mkd. T 19 S R 5 E S 25' B T.

A pinon pine, 7 ins.in dia., bears N.26°30'W.,

42 lks.dist..mkd. T 19 S R 5 E S 14' B T.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar and pinon pine.

Undergrowth, mountain rush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

S.89°54'E., on a random line bet.secs.13 and 24.40.00 Set temp. $\frac{1}{4}$ sec.cor.80.28 Intersect the E.Bdy.of Tpt., 10 lks.S.of the cor.of secs.
13, 18, 19 and 24, heretofore described.

Thence I run

N.89°58'W., on a true line bet.secs.13 and 24.

Over nearly level land, through scattering timber and
dense undergrowth.

Asc.gently.

8.00 Enter heavy timber and leave dense undergrowth, bears N.
and S.

14.60 Edge of mesa, bears N.60°W.and S.60°E.

Leave heavy timber, bears N.and S.

Note: From ~~this~~ point I observe a coal entry on the W.

side of Ferron Creek, which bears S.76°46'W.; about 24 chs.

The claimants are L.C.Kjar and J.C.Kjar, Manti, Utah.

These claimants had marked trees near the E.bdy.of the
tp., intending to locate the ground included in the E. $\frac{1}{2}$ of Sec.
24.

Desc.abruptly over ledges and boulders.

34.00 Enter scattering timber, bears NW.and SE.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	Ferron
40.00	Creek, 50 lks. wide, 18 ins. deep, in bottom of Ferron Canon, 1100 ft. below mesa, course SE.
40.14	Point for cor. falls in Creek, therefore at
40.99	Set an iron post, 3 ft. long, 1 in. in dia., in crack of a large boulder, 20x20x20 ft. above ground, for witness corner to $\frac{1}{4}$ sec. cor.. mkd. on brass cap T 19 S R 5 E W C $\frac{1}{4}$ S 13 in N half and S 24 in S half; from which A cedar, 11 ins. in dia., bears N. 33° E., 10 lks. dist.. mkd. W C $\frac{1}{4}$ S 13 B T. A cedar, 11 ins. in dia., bears S. 8° W., 27 lks. dist.. mkd W C $\frac{1}{4}$ S 24 B T.
40.05	Point from which the mouth of a tunnel, 8x9 ft. extending 25 ft. S., bears N. 84° 50' W., 2.90 chs. dist. This coal bed is 8 ft. thick and the coal is a very tough semi anthracite which resists erosion by the stream remarkably well. Another coal entry, 5x6x10 ft., bears S. 84° 50' W., 3.18 chs. dist. This coal bed is 5 ft. thick. Another coal entry, 5x6x5 ft. bears N. 63° W., 8.90 chs. Note. I note that the claimants for the W. $\frac{1}{2}$ of Sec. 24 are L.F. Becker and L.R. Anderson and for the W. $\frac{1}{2}$ of Sec. 13 are J.E. Madson and P.P. Dyreng; and the claimants for the E. $\frac{1}{2}$ of Sec. 13, are Jas. Crawford and N.M. Thomas. An old rock cabin, with log roof, bears N. 22° W., about 2 chs. dist.
71.00	Point from which a coal entry, 7x6x5 ft., bears S. 80° 30' E., about 33.30 chs. This is the same as noted from 14.60 chs in point on this line.
71.80	Top of ascent, 1050 ft. above Canon, bears NW. and SE.
89.28	Cor. of secs. 13, 14, 23 and 24. Land, mountainous, and nearly level. Soil, rocky; 4th rate. Timber, cedar and pinon pine. Undergrowth, sage brush. Good grass for grazing.

Subdivision of T.19 S., R.5 E.-Continued.

Chains Land covered with dense undergrowth, 80.28 chs.

June 14, 1910.

June 15, 1910: At 8 h 0 m a.m., l.m.t., I set off $39^{\circ}10'N.$, on the lat.arc; $23^{\circ}19'N.$, on the decl.arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.

Thence I run

$N.0^{\circ}1'W.$, on a true line bet. secs. 13 and 14.

Over mountainous land, through heavy timber and dense undergrowth.

Desc.

2.50 Bottom of hollow, 50 ft. below sec. cor., course $N.25^{\circ}E.$

Asc.

10.00 Top of ridge, 50 ft. above hollow, bears E. and W.

Desc. over ledges.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 14° in W half and S 13° in E half; from which

A pinon pine, 8 ins. in dia., bears $N.50^{\circ}E.$, 10 lks.

dist. mkd. $\frac{1}{4}$ S 13° B T.

A pinon pine, 10 ins. in dia., bears $N.75^{\circ}W.$, 49

lks. dist. mkd. $\frac{1}{4}$ S 14° B T.

45.50 Enter bottom of Ferron Creek Canon, bears NW. and SE.

Leave heavy and enter scattering timber, bears NW. and SE.

46.80 Right bank of Ferron Creek, 25 lks. wide, 2 ins. deep, very rapid current, course SE.

49.00 Leave Canon bottom, bears NW. and SE.

Asc. over ledges and boulders.

70.86 Top of ridge, 100 ft. above Canon, bears NE. and SE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 11, 12, 13 and 14. mkd. on brass

Subdivision of T.19 S., R.5 E-Continued.

Chains cap

T 19 S S 11[✓] in NW.R 5 E S 12[✓] in NE.S 13[✓] in SE; andS 14[✓] in SW. quadrants; from which

A pinon pine, 8 ins. in dia., bears N. 7° 45' E., 38

lks. dist..mkd. T 19 S R 5 E S 12[✓] B T.

A pinon pine, 16 ins. in dia., bears S. 36° 30' E.,

52 lks. dist..mkd. T 19 S R 5 E S 13[✓] B T.

A red pine, 14 ins. in dia., bears S. 2° 20' W., 121

lks. dist..mkd. T 19 S R 5 E S 14[✓] B T.

A pinon pine, 8 ins. in dia., bears N. 38° W., 29 lks.

dist..mkd. T 19 S R 5 E S 11[✓] B T.

Land, mountainous.

Soil, gravelly; 4th rate.

Timber, pinon pine, cedar and red pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous, or heavily timbered land, 80.00 chs.

S. 89° 58' E., on a random line, bet. secs. 12 and 13.

40.00 Set temp. $\frac{1}{4}$ sec. cor.80.12 Intersect the E. Bdy. of Tp. 5 lks. S. of the cor. of secs.
7, 12, 13, and 18, heretofore described.

Thence 1 run

West on a true line bet. secs. 12 and 13.

Over mountainous land, through scattering timber and
dense undergrowth. Ass.

9.00 Enter heavy timber, bears N. and S.

16.00 Top of ridge, 20 ft. above sec. cor., bears N. and S.

25.00 Leave heavy timber, bears NW. and SE.

37.00 Enter heavy timber, bears NE. and SW.

40.06 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 12[✓] in N

Subdivision of T.19 S., R.5 E.-Continued.

Chains	<p>half and S. 13' in S half; from which</p> <p>A cedar, 7 ins. in dia., bears N. 16° E., 16 lks. dist. mkd. $\frac{1}{2}$ S 12' B T.</p> <p>A cedar, 9 ins. in dia., bears S. 76° E., 12 lks. dist. mkd. $\frac{1}{2}$ S 15' B T.</p>
40.50	Leave timber, bears N. and S. Desc.
46.60	Bottom of hollow, 200 ft. below $\frac{1}{2}$ sec. cor., course S. Asc.
55.00	Enter timber, bears NE. and SW.
69.60	Top of ridge, 200 ft. above hollow, bears NE. and SW. Desc.
80.12	Cor. of secs. 11, 12, 13 and 14.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, cedar, red and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.12 chs.
	<hr/>
	N. 0° 1' W., on a true line bet. secs. 11 and 12.
	Over mountainous land, through heavy timber and scattering undergrowth. Asc.
4.10	Leave timber, bears NW. and SE. Bottom of hollow, drains SW.
	Enter dense undergrowth, bears E. and W.
	Begin gradual ascent, bears NE. and SW.
8.00	Top of ridge, 150 ft. above sec. cor., bears NE. and SW. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. on brass cap $\frac{1}{2}$ S 11' in W half and S 12' in E half; from which
	A pinon pine, 20 ins. in dia., bears N. 68° 30' W., 285 lks. dist. mkd. $\frac{1}{2}$ S 14' B T.
	No other trees within limit; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
65.00	Bottom of hollow, course SW.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

Subdivision of T.19 S., R.5 E.-Continued.

Chains	ground, for cor. of secs. 1, 2, 11 and 12. mkd. on brass cap.
T	T 19 S S 2 in NW.
	R 5 E S 1 in NE.
	S 12 in SE; and
	S 11 in SW; quadrants, from which
	A cedar, 20 ins. in dia., bears N. 14° E., 81 lks. dist. mkd. T 19 S R 5 E S 1 B T.
	A cedar, 24 ins. in dia., bears S. 25° 50' E., 163 lks. dist. mkd. T 19 S R 5 E S 12 B T.
	A cedar, 12 ins. in dia., bears S. 4° 15' W., 97 lks. dist. mkd. T 19 S R 5 E S 11 B T.
	A pinon pine, 12 ins. in dia., bears N. 21° 30' W., 317 lks. dist. mkd. T 19 S R 5 E S 2 B T.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, cedar and pinon pine, and red pine.
	Undergrowth, sage brush and mountain rush.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.
	June 15, 1910: At this cor. I set off 23° 19' N., on the decl. arc; and at 12 h 0 m a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 39° 11' N., which is the proper lat. nearly.
	East on a random line bet. secs. 1 and 12.
40.00	Set temp., $\frac{1}{4}$ sec. cor.
80.04	Intersect E. Bdy. of T. 2 lks. N. of the cor. of, secs. 1, 6, 7 and 12, heretofore described.
	Thence I run
	N. 89° 59' W., on a true line bet. secs. 1 and 12.
	Over mountainous land, through scattering timber and dense undergrowth. Asc.

Subdivision of T.19 S., R.5 E., -Continued.

Chains

- 4.00 Top of ridge, 100 ft. above sec. cor., bears N. and S. Desc.
- 36.00 Bottom of hollow, 400 ft. below ridge, course S. 20° W.
- 40.02 Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock bottom and surrounded by mound of stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 1 in N half and S 12 in S half; from which
- A pinon pine, 14 ins. in dia., bears E. 33° W., 36 lks. dist. mkd. $\frac{1}{4}$ S 1 B T.
- A pinon pine, 16 ins. in dia., bears S. 45° W., 3 lks. dist. mkd. $\frac{1}{4}$ S 12 B T.
- 42.00 Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. and S. Desc.
- 49.30 Bottom of hollow, 50 ft. below ridge, course S. Asc.
- 57.00 Top of ridge, 50 ft. above hollow, bears N. and S. Desc.
- 74.50 Bottom of hollow, 100 ft. below ridge, course S.
- 80.04 Cor. of secs. 1, 2, 11 and 12.
- Land, mountainous.
- Soil, rocky, 4th rate.
- Timber, cedar and pinon pine.
- Undergrowth, sage brush, mahogany and rabbit brush.
- Good grass for grazing.
- Mountainous land, of land covered with dense undergrowth,
- 80.04 chs.
-
- N. 0° 1' W., on a random line, bet. secs. 1 and 2.
- 40.00 Set Temp. $\frac{1}{4}$ sec. cor.
- 80.06 Intersect the N. bdy. of tp. 12 lks. W. of the cor. of secs. 1, 2, 35 and 36, heretofore described.
- Thence 1 run
- S. 0° 4' W., on a true line bet. secs. 1 and 2.
- Over mountainous land, through scattering timber and dense undergrowth. Asc. abruptly.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	
3.00	Top of ascent, bears E. and W.
22.06	Foot of descent, bears E. and W.
40.06	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 1° in E half and S 2° in W half; from which A cedar, 5 ins. in dia., bears N. 20° E., 62 lks. dist. mkd. $\frac{1}{4}$ S 1° B T. No other trees within limit; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high W. of cor.
46.00	Top of ridge, 200 ft. above $\frac{1}{4}$ sec. cor., bears NE. and SW.
80.06	Cor. of secs. 1, 2, 11 and 12. Land, mountainous. Soil, sandy loam; 2nd rate. Timber, cedar and pinon pine. Undergrowth, sage brush. and service berry. Good grass for grazing. Mountainous land or land covered with dense undergrowth. 80.06 chs. June 15, 1910 <hr/> June 16, 1910, At 8 h 0 m a.m., l.m.t., I set off $39^{\circ}07'N.$, on the lat. arc; $25^{\circ}21'N.$, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 2, 3, 34 and 35. on S. bdy. of Tp., heretofore described. Thence I run N. $0^{\circ}1'W.$, on a true line bet. secs. 34 and 35. Over mountainous land, through heavy timber and dense undergrowth. Desc. 21.10 Creek, 3 lks. wide, 2 ins. deep, in bottom of hollow, 100 ft. below sec. cor., course N. 80° E. A spring bears S. 80° W., 50 lks. dist. from this point.

Subdivision of T.19 S., R.5 E.-Continued.

- Chains Asc.
- 21.80 Old road, bears E. and W.
- 24.00 Top of ridge, 50 ft. above hollow, bears E. and W.
- Desc.
- 28.00 Spring branch, 2 lks. wide, 1 in. deep, in bottom of hollow, 100 ft. below ridge, course NE.
- Asc.
- 38.00 South edge of small pond.
- 38.60 North edge of pond.
- 40.00 Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 34 in W. half and S 35 in E. half; from which
- An aspen, 4 ins. in dia., bears N. 62° 30' E., 27 lks. dist. mkd. $\frac{1}{4}$ S 35 B T.
- A white pine, 36 ins. in dia., bears N. 77° W., 41 lks. dist. mkd. $\frac{1}{4}$ S 34 B T.
- 40.20 Leave heavy timber, bears E. and W.
- 43.00 Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears E. and W.
- Desc.
- 54.50 Head of swale, 40 ft. below ridge, course E.
- Asc.
- 60.00 Top of ridge, 40 ft. above swale, bears E. and W.
- 64.00 Enter heavy timber, bears E. and W.
- 67.00 Leave heavy timber, bears E. and W.
- 79.00 Enter heavy timber, bears N. 20° E. and S. 20° W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 26, 27, 34 and 35. mkd. on brass cap
- T 19 S S 27 in NW.
- R 5 E S 26 in NE.
- S 35 in SE; and
- S 34 in SW, quadrants; from which
- An aspen, 4 ins. in dia., bears N. 70° E., 26 lks. dist. mkd. T 19 S R 5 E S 26 B T.
- A white pine, 6 ins. in dia., bears S. 52° 30' E., 43 lks. dist. mkd. T 19. S R 5 E S 35 B T.
- A white pine, 4 ins. in dia., bears S. 27° W., 34 lks.

Subivision of T.19 S. R. 5 E. -Continued.

Chains	dist..mkd.T 19 S R 5 E S 34 ¹ B T.
	AN aspen, 5 ins.in dia.mpbears N.78°W., 30 lks.
	dist..mkd.T 19 S R 5 E S 27 ¹ B T.
	Land, mountainous.
	Soil, rocky; 4th rate.
	Timber, white pine, aspen and cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or heavily timbered land, 80.00 chs.
	East on a randon line bet.secs.26 and 35.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.20	Intersect the N.and S.line 2.lks.S.of the cor.of secs. 25, 26, 35 and 36.
	Thence I run, N.89°59'W., on a true line bet.secs.26 and 35.
	Over mountainous land, through heavy timber and dense undergrowth.
	Asc.
10.30	Top of spur 50 ft.above sec.cor., bears E.and S.
	Desc.
18.00	Wash, 1 lks.wide, 6 ins.deep, in bottom of hollow, 25 ft. below ridge, course N.60°E.
	Asc.
21.50	Road, bears N.and S.
38.20	Leave heavy timber and enter scattering, bears N.and S.
40.10	Set an iron post, 3 ft.long 1 in.in dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 26 ¹ in N half and S 35 ¹ in S half; from which An aspen, 4 ins.in dia., bears N.59°E., 72 lks. dist..mkd. $\frac{1}{4}$ S 26 ¹ B T. An aspen, 4 ins.in dia., bears S.84°E., 60 lks.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	dist..mkd. $\frac{1}{4}$ S 35 B T.
42.20	Ascend abruptly, bears N. and S.
55.20	Top of ridge, 50 ft. above $\frac{1}{4}$ sec. cor., bears N. and S. Desc.
63.20	Pool in basin. Asc.
71.20	Top of ridge, 40 ft. above $\frac{1}{2}$ sec. cor., bears N. and S. Desc.
80.20	Cor. of secs. 26, 27, 34 and 35. Land, mountainous. Soil, rocky; 4th rate. Timber, aspen and cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 80.20 chs.
<hr/>	
	N. $0^{\circ}1'W.$, bet. secs. 26 and 27. Over mountainous land, through heavy timber and scattering undergrowth. Desc.
22.00	Leave timber, bears E. and W.
27.60	Creek, 3 lks. wide, 2 ins. deep, course NE. Asc.
30.40	Road, bears N. $70^{\circ}E.$ and S. $70^{\circ}W.$
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 27 in W. half and S 26 in E. half; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Top of ridge bears NE. and SW.
45.00	Enter scattering timber, bears E. and W.
60.00	
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 22, 23, 26 and 27..mkd. on brass

Subdivision of T.19 S., R.5 E.-Continued.

Chains

cap

T 19 S S 22 in NW.

R 5 E S 23 in NE.

S 26 in SE; and

S 27 in SW, quadrants; from which

An aspen, 8 ins. in dia., bears N. $12^{\circ}10'E.$, 71

lks. dist..mkd. T 19 S R 5 E S 23 B T.

A white pine, 8 ins. in dia., bears S. $58^{\circ}25'E.$, 90

lks. dist..mkd. T 19 S R 5 E S 26 B T.

A white pine, 8 ins. in dia., bears S. $56^{\circ}15'W.$,

58 lks. dist..mkd. T 19 S R 5 E S 27 B T.

A white pine, 8 ins. in dia., bears N. $4^{\circ}W.$, 168

lks. dist..mkd. T 19 S R 5 E S 22 B T.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, white pine, red pine, and aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

June 16, 1910: At this cor. I set off $23^{\circ}21'N.$, on the decl.
arc. and at 12 h 0 m 24 s l.m.t., I observe the sun
on the meridian, the resulting lat. is $39^{\circ}09'N.$, which
is the proper lat. nearly.

S. $89^{\circ}59'E.$, on a random line bet. secs. 23 and 26.40.00 Set temp. $\frac{1}{4}$ sec. cor..

80.22 Intersect the N. and S. line 18 lks. N. of the cor. of secs.
23, 24, 25 and 26.

Thence I run

N. $89^{\circ}56'W.$, on a true line bet. secs. 23 and 26.

Over mountainous land, through scattering timber and dense
undergrowth.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	Asc.
26.22	Top of ridge, 50 ft. above sec. cor., bears N. and S. Desc.
30.00	Enter heavy timber, bears N. and S.
34.72	Bottom of hollow, 100 ft. below ridge, course N. Asc.
37.22	Leave heavy timber and enter scattering, bears N. and S.
40.11	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 23 in N half and S 26 in S half; from which An aspen, 6 ins. in dia., bears N. 7° E., 385 lks. dist.. mkd. $\frac{1}{4}$ S 23 B T. A cedar, 6 ins. in dia., bears S. 55° W., 62 lks. dist.. mkd. $\frac{1}{4}$ S 26 B T.
50.22	Top of ridge, 50 ft. above $\frac{1}{4}$ sec. cor., bears N. and S. Desc.
65.22	Creek, 2 lks. wide, 1 in. deep, in bottom of hollow, 200 ft. below ridge, course N. Asc.
73.22	Top of ridge, 100 ft. above hollow, bears N. and S. Desc.
75.72	Creek, 4 lks. wide, 1 in. deep, course N.
79.72	Bottom of hollow, 50 ft. below ridge, course N.
80.22	Cor. of secs. 22, 23, 26 and 27. Land, mountainous, Soil, rocky; 4th rate. Timber, cedar aspen and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land or land covered with dense undergrowth, 80.22 chs.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	N.6°1'W., bet. secs. 22 and 23. Over mountainous land, through scattering timber and dense undergrowth, Desc. 2.70 Creek, 3 lks. wide, 2 ins. deep, in bottom of hollow, 50 ft. below sec. cor., course NE. Asc. 20.00 Top of ridge, 100 ft. above hollow, bears NE. and SW. Desc. 40.00 Set an iron post, 3 ft. long 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 22° in W. half and S 23° in E. half; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. 65.00 Creek, 6 lks. wide, 6 ins. deep, in bottom of Wrigley Canon, 250 ft. below ridge, course NE. Asc. abruptly. 75.00 Leave timber bears NE. and SW. 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 14, 15, 22 and 23.. mkd. on brass cap T 19 S S 15° in NW. R 5 E S 14° in NE. S 23° in SE; and S 22° in SW; quadrants; from which An oak, 4 ins. in dia., bears N. 61° 30' W., 59 lks. dist.. mkd. T 19 S R 5 E S 15 B T. A cedar, 9 ins. in dia., bears N. 58° 30' E., 133 lks. dist.. mkd. T 19 S R 5 E S 14 B T. A cedar, 7 ins. in dia., bears S. 66° E., 242 lks. dist.. mkd. T 19 S R 5 S 23 B T. An oak, 4 ins. in dia., bears S. 71° W., 40 lks. dist.. mkd. T 19 S R 5 E S 22 B T. Land, mountainous. Soil, gravelly; 2nd rate.
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Subdivision of T.19 S., R.5 E-Continued.

Chians Timber, cedar and oak.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth,
 80.00 chs.

S.89°56'E., on a random line bet.secs.14 and 23.
 40.00 Set temp. $\frac{1}{4}$ sec.cor.
 80.30 Intersect the N.and S.line, 10 lks.N.of the cor.of secs.
 13, 14, 23 and 24.
 Thence I run
 N.89°52'W., on a true line bet.secs.14 and 23.
 Over mountainous land, through scattering timber and
 dense undergrowth.
 Desc.
 2.00 Bottom of hollow, 30 ft.below sec.cor., course N.25°E.
 Asc.
 4.00 Edge of flat, bears N.and S.
 Leave timber, bears N.and S.
 16.00 Foot of ascent, bears N.and S.
 Enter scattering timber, bears N.and S.
 24.00 Top of ridge, 400 ft.above hollow, bears N.25°E. and S.25°
 W.
 Desc.
 40.15 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the
 ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 14 in N
 half and S 23 in S half; from which
 A pinon pine, 6 ins.in dia., bears N.79°W., 49 lks.
 dist..mkd. $\frac{1}{4}$ S 14 B T.
 A red pine, 14 ins.in dia., bears S.79°E., 48 lks.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	dist..mkd. $\frac{1}{2}$ S 23 B.T. 100 fms below, below
46.60	Creek, 5 lks. wide, 2 ins. deep in bottom of Wrigley Creek Canon, 100 ft. below $\frac{1}{4}$ sec. cor., course N. 20° E.
	Desc. same. Riv. however small so, final point found
48.00	Top of ledge, 100 ft. high, bears N. and S. 10° 00' 00"
	Desc.
48.60	Creek, 2 lks. wide 1 in. deep, course S. 80° E.
	Asc.
67.35	Creek, 6 lks. wide, 3 ins. deep in bottom of Wrigley Creek Canon, 200 ft. below $\frac{1}{4}$ sec. cor., course N. 80° E.
	Asc.
76.60	Ridge, 75 ft. high, bears N. and S.
80.30	Cor. of secs. 14, 15, 22 and 23.
	Land, mountainous,
	Soil, rocky; 4th rate.
	Timber, cedar and oak.
	Undergrowth, sage brush.
	Mountainous land, or land covered with dense undergrowth,
	80.30 chs.
	June 16, 1910.
	June 17, 1910; At 8 h 0 m a.m., l.m.t., I set off 39° 10' N., on the lat. arc; 23° 23' N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 13, 14, 23 and 24.
	Thence I run
	N. 0° 1' W., bet. secs. 14 and 15.
	Over mountainous land, through scattering timber and dense undergrowth.
	Asc.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

15.00 Top of ridge, 50 ft. above sec. cor., bears N. 20° W. and S. 20° E.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap, $\frac{1}{2}$ S 15 in W. half and S 14 in E. half; from which

A cedar, 40 ins. in dia., bears N. 73° E., 44 lks. dist.. mkd. $\frac{1}{4}$ S 14 B T.

A pinon pine, 6 ins. in dia., bears S. 69° 15' W., 123 lks. dist.. mkd. $\frac{1}{4}$ S 15 B T.

76.00 Desc. abruptly, bears E. and W.

80.00 Edge of Ferron Creek, Canon, course S. 80° E.

Set an iron post, 3 ft. long, 2 in. in dia., 24 ins. in the ground for cor. of secs. 10, 11, 14 and 15.. mkd. on brass cap

T 19 S S 10 in NW.

R 5 E S 11 in NE.

S 14 in SW; and

S 15 in SE, quadrants; from which

A red pine, 6 ins. in dia., bears N. 3° 50' E., 48 lks. dist.. mkd. T 19 S R 5 E S 11 B T.

A pinon pine, 12 ins. in dia., bears S. 85° E., 44 lks. dist.. mkd. T 19 S R 5 E S 14 B T.

A red pine, 6 ins. in dia., bears S. 53° 25' W., 27 lks. dist.. mkd. T 19 S R 5 E S 15 B T.

A cedar, 12 ins. in dia., bears N. 61° W., 15 lks. dist.. mkd. T 19 S R 5 E S 10 B T.

Land, mountainous.

Soil, rocky; 4th rate.

Timber, cedar, pinon pine, red pine and oak.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

Subdivision of T.19 S., R.5 E-Continued.

Chains	80.00 chs.
	S.89°52'E., on a random line, bet. secs. 11 and 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.10	Intersect the N. and S. line 13 lks. S. of the cor. of secs. 11, 12, 13 and 14.
	Thence I run
	N.89°54'W., on a true line bet. secs. 11 and 14.
	Over mountainous land, through heavy timber and scattering undergrowth.
	Desc.
4.50	Bottom of hollow, 50 ft. below sec. cor., course SW.
	Asc.
23.35	As the $\frac{1}{4}$ sec. cor. will fall in wash
	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for witness corner to $\frac{1}{4}$ Sec. cor. mkd. on brass cap
	T 19 S R 5 E S W C $\frac{1}{4}$ S 11 in N half and S 14 in S half; from which
	A pinon pine, 16 ins. in dia., bears N.27°E., 47 lks.
	dist. mkd. W C $\frac{1}{4}$ S 11 B T.
	A cedar, 6 ins. in dia., bears S.17°E. 47 lks.
	dist. mkd. W C $\frac{1}{4}$ S 14 B T.
40.05	Falls in wash, cor. not set.
41.50	Creek, 25 lks. wide, 2 ft. deep, in bottom of Ferron Creek Canon, 800 ft. below W.C., course S E.
	Asc.
80.10	Cor. of secs. 10, 11, 14 and 15.
	Land, mountainous.

Subdivision of T.19 S., R.5 E-Continued.

Chains

Soil, gravevly; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous, or heavily timbered land, 80.10 chs.

N. 0° 1' W., on a true line bet. secs. 10 and 11.

Over mountainous land, through heavy timber and dense undergrowth.

Desc.

14.50 Creek, 30 lks. wide, 2 ft. deep, in bottom of Ferron Creek Canon, 1000 ft. below sec. cor., course S. 65° E.

Asc. over ledges.

28.22 As the $\frac{1}{4}$ sec. cor. will fall in ledges where it cannot be perpetuated, at this point I

Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for witness corner to $\frac{1}{4}$ sec. cor. mkd. on brass cap T 19 S R 5 E S W C $\frac{1}{4}$ S 10' in W half and S 11' in E half; from which

A cedar, 5 ins. in dia., bears N. 35° E., 30 lks. dist. mkd. W C $\frac{1}{4}$ S 11' B T.

A pinon pine, 8 ins. in dia., bears S. 17° 30' W.,

50 lks. dist. mkd. W C $\frac{1}{4}$ S 10' B T.

29.00 Top of ridge, 100 ft. above witness corner, bears E. and W.

Desc. over ledges.

40.00 Corner falls in ledges, not set.

68.00 Bear Creek, 20 lks. wide, 2 ins. deep, in bottom of Bear Creek Canon

300 ft. below ridge, course SE.

Asc. over ledges.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

80.00

Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 2, 3, 10 and 11. mkd. on brass cap
 T 19 S S 3 in NW.
 R 5 E S 2 in NE.
 S 11 in SE; and
 S 10 in SW, quadrants; from which
 A pinon pine, 30 ins. in dia., bears N. $37^{\circ}30'E.$, 51 lks. dist. mkd. T 19 S R 5 E S 2¹/₂ B T.
 A cedar, 18 ins. in dia., bears S. $61^{\circ}E.$, 66 lks. dist. mkd. T 19 S R 5 E S 11 B T.
 A mahogany, 4 ins. in dia., bears S. $50^{\circ}W.$, 45 lks. dist. mkd. T 19 S R 5 E S 10 B T.
 A pinon pine, 5 ins. in dia., bears N. $43^{\circ}W.$, 57 lks. dist. mkd. T 19 S R 5 E S 3¹/₂ B T.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar, mahogany, and pinon pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous, or heavily timbered land, 80.00 chs.

June 17, 1910; At the noon hour the sky is overcast and solar observations are impossible.

S. $89^{\circ}54'E.$, on a random line bet. secs. 2 and 11.

40.00

Set temp. $\frac{1}{4}$ sec. cor.

80.00

Intersect the N. and S. line 11 lks. S. of the cor. of secs. 1, 2, 11 and 12.

Thence I run

N. $89^{\circ}59'W.$, on a true line bet. secs. 2 and 11.

Over mountainous land, thorough scattering timber and dense undergrowth.

Desc.

Subdivision of T. 18 S., R. 5 - Contained

Chains.	
8.00	Bottom of hollow, 20 ft. below sec. cor., course S. 80° E. Asc.
21.00	Top of ridge, 50 ft. above hollow, bears NB. and SW. Desc.
40.00	Set an iron post 3 ft. long, 1 in. in dia., 20 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 2 in N. half and S 11 in S. half; from which A cedar 4 ins. in dia. bears N. 25° W. 22 lbs. dist. mkd. $\frac{1}{4}$ S 2 B T A red pine, 8 ins. in dia., bears S. 50° W. 97 lbs. dist., mkd. $\frac{1}{4}$ S 11 B T
41.00	Enter heavy timber, bears NB. and SW.
43.20	Creek, 2 lbs. wide, 2 ins. deep, in bottom of hollow, 100 ft. below $\frac{1}{4}$ sec. cor., course SW. Asc. abruptly.
49.00	Top of ridge, 300 ft. above hollow, bears N. and S. Desc.
54.70	Creek, 3 lbs. wide, 1 in. deep, in bottom of canon, 300 ft. below ridge, course S. 10° E.
80.00	The cor. of secs. 2, 3, 10, and 11.. Land, mountainous. Soil, rocky; 4th rate.

Subdivision of T. 13 S. R. 5 E - Continued

Cor. line. Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth

80.00 chs.

N. 0° 1' W. on a random line bet. secs. 2 and 3,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

70.00 Intersect the N. bdy. of Tp. 13 lks. E. of the cor. of secs.
2, 3, 34, and 35, heretofore described.

Thence I run

S. 0° 2' E. on a true line bet. secs. 2 and 3,

Over mountainous land; through scattering timber and
dense undergrowth. Desc.

30.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in
the ground, for $\frac{1}{4}$ sec. cor., mkd. on Brass cap $\frac{1}{4}$ S 3
in W. half, and S 2 in E. half; from which

A cedar 30 ins. in dia., bears N. 60° 20' W. 195 lks.
dist., mkd. $\frac{1}{4}$ S 3 B T

A cedar 8 ins. in dia. bears S. 61° E. 111 lks. dist.
mkd. $\frac{1}{4}$ S 2 B T

31.00 Bottom of hollow, 250 ft. below $\frac{1}{4}$ sec. cor., course SW.
Asc.

77.00 Top of ridge, 100 ft. above hollow, bears NE. and SW.
Desc.

71.00 Cor. of secs. 2, 3, 10, and 11.
Land, mountainous.

Soil, gravelly; 4th rate.

Undergrowth, sagebrush.

Subdivision of T.19 S., R.5 E-Continued.

Chains Good grass for grazing.

Mountainous land, or land, covered with dense undergrowth,
79.96 chs.

June 17, 1910.

June 18, 1910: At 8 h 4 m. a.m., l.m.t., I set off $39^{\circ}07'N.$,
on the lat. arc; $23^{\circ}25'N.$, on the decl. arc; and determine
a meridian with the solar at the cor. of secs. 3, 4, 33 and
34, on S. bdy. of Tp., heretofore described.

Thence I run

$N.0^{\circ}2'W.$, on a true line bet. secs. 33 and 34.

Over mountainous land, through heavy timber and scatter-
ing undergrowth.

Desc. abruptly.

37.60 Old road, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 33 in W. half
and S 34 in E. half; from which

An aspen, 12 ins. in dia., bears $N.57^{\circ}30'E.$, 7 lks.
dist. mkd. $\frac{1}{4}$ S 34 B T.

A white pine, 12 ins. in dia., bears $N.82^{\circ}W.$, 14 lks.
dist. mkd. $\frac{1}{4}$ S 33 B T.

78.50 Creek, 6 lks. wide, 4 ins. deep, in bottom of Wrigley Canon,
50 ft. below $\frac{1}{4}$ sec. cor., course NE.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins
in the ground for cor. of secs. 27, 28, 33 and 34. mkd. on
brass cap

T 19 S S 28 in NW.

R5 E S 27 in NE.

Subdivision of T.19 S., R.5 E-Continued.

Chains

S 34⁴ in SE; andS 33³ in SW, quadrants; from which

A red pine, 8 ins. in dia., bears N. 42° E., 63 lks.
dist., mkd. T 19 S R 5 E S 27 B T.

A white pine, 8 ins. in dia., bears S. 65° E., 111
lks. dist., mkd. T 19 S R 5 E S 34 B T.

A red pine, 8 ins. in dia., bears S. 50° W., 54 lks.
dist., mkd. T 19 S R 5 E S 33 B E.

A white pine, 4 ins. in dia., bears N. 30° W., 24
lks. dist., mkd. T 19 S R 5 E S 28^V B T.

An old log cabin, bears S. 62° 40' W., 5 chs. dist. from this
point.

An old saw-mill site, bears S. 33° W., 6.00 chs. dist., from
this point. Saw-mill not in use.

Land, mountainous .

Soil, sandy; 2nd rate.

Timber, pine, aspen and balsam.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or heavily timbered land, 80.00 chs.

East on a random line bet. secs. 27 and 34.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.88 Intersect the N. and S line at the cor. of secs. 26, 27, 34
and 35.

Thence, I run

West on a true line bet. secs. 27 and 34.

Over mountainous land, through heavy timber and scattering
undergrowth,

Asc.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

- 22.00 Top of ridge, 200 ft. above sec. cor., bears N. and S.
Desc.
- 30.00 Enter marsh, bears N. and S.
- 34.00 Spring in marsh, on side of hall.
Asc.
- 39.94 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap, $\frac{1}{4}$ S 27° in N half and S 34° in S half; from which
A balsam, 10 ins. in dia., bears N. 83° E., 27 lks.
dist. mkd. $\frac{1}{4}$ S 27° B T.
A balsam, 8 ins. in dia., bears S. 42° E., 39 lks.
dist. mkd. $\frac{1}{2}$ S 34° B T.
- 45.00 Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. and S.
Desc.
- 79.50 Creek, 5 lks. wide, 5 ins. deep, in bottom of Wrigley Canon,
100 ft. below spur, course NE.
Asc.
- 79.88 Cor. of secs. 27, 28, 33 and 34.
Land, mountainous.
Soil, gravelly; 4th rate.
Timber, balsam, cedar red and white pine.
Undergrowth, sage brush.
Mountainous or heavily timbered land, 79.88 chs.
-
- N. 0° 2' W., on a true line bet. secs. 27 and 28.
Over mountainous land, through heavy timber and scattering undergrowth.
Desc.
- 0.15 Creek, 3 lks. wide, 4 ins. deep, in bottom of Wrigley Canon,
200 ft. below sec. cor., course N. 40° E.

Subdivision of T.19 S., R. 5 E-Continued.

Chains	Asc.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 28 $^{\circ}$ in W, half and S 27 $^{\circ}$ in E. half; from which An aspen, 8 ins. in dia., bears S. 81 $^{\circ}$ 30' E., 48 lks. dist. mkd. $\frac{1}{4}$ S 27 $^{\circ}$ B T. An aspen, 5 ins. in dia., bears S. 78 $^{\circ}$ W., 20 lks. dist. mkd. $\frac{1}{4}$ S 28 $^{\circ}$ B T.
41.20	Marsh, 50 lks. wide, drains: E. Asc.
62.10	Road, bears N. 60 $^{\circ}$ W. and S. 60 $^{\circ}$ E.
68.00	Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears NE. and SW. Desc.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 21, 22, 27 and 28. mkd. on brass cap T 19 S S 21 $^{\circ}$ in NW. R 5 E S 22 $^{\circ}$ in NE. S 27 $^{\circ}$ in SE; and S 28 $^{\circ}$ in SW, quadrants; from which An aspen, 6 ins. in dia., bears N. 27 $^{\circ}$ E., 7 lks. dist. mkd. T 19 S R 5 E S 22 $^{\circ}$ B T. An aspen, 6 ins. in dia., bears S. 1 $^{\circ}$ E., 40 lks. dist. mkd. T 19 S R 5 E S 27 $^{\circ}$ B T. An aspen, 6 ins. in dia., bears S. 64 $^{\circ}$ W., 24 lks. dist. mkd. T 19 S R 5 E S 28 $^{\circ}$ B T. An aspen, 6 ins. in dia., bears N. 63 $^{\circ}$ W., 27 lks. dist. mkd. T 19 S R 5 E S 21 $^{\circ}$ B T. Land, mountainous. Soil, gravelly, 2nd rate. Timber, aspen, cedar, and pinon pine. Undergrowth, sage brush. Good grass for grazing. Mountainous, or heavily timbered land, 80.00 chs. June 18, 1910: At this cor. I set off 23 $^{\circ}$ 25' N. on the decl.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	arc; and at 12 h 1 m. p.m., 1 m.t., I observe the sun on the meridian the resulting lat. is $39^{\circ}09'N$, which is the proper lat. nearly.
	East on a random line, beat secs. 22 and 27.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
79.98	Intersect the N. and S. line 6 lks. N. of the cor. of secs. 22, 23, 26 and 27. Thence I run N. $89^{\circ}57'W$, on a true line bet. secs. 22 and 27. Over mountainous land, thorough heavy timber and scattering timber. Desc:
1.60	Creek, 3 lks. wide, 3 ins. deep, in bottom of hollow, course NE. Asc.
10.00	Top of ridge, 100 ft. above hollow, bears NE. and SW. Desc.
24.30	Creek, 6 lks. wide, 6 ins. deep, in bottom of Wrigley Canon, 100 ft. below ridge, course NE. Asc.
33.00	Top of ridge, 50 ft. above Canon bears NE. and SW. Desc.
35.40	Creek, 3 lks. wide, 6 ins. deep, in bottom of hollow, 100 ft. below ridge, course NE. Asc.
39.99	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4} S 22^{\circ}$ in N half and $S 27^{\circ}$ in S half; from which An aspen, 5 ins. in dia., bears $N. 10^{\circ}W$, 21 lks.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	dist..mkd. $\frac{1}{4}$ S 22 $\frac{1}{2}$ B.T.
	An aspen, 4 ins.in dia., bears S.57°30'W., 9 lks. dist..mkd. $\frac{1}{4}$ S 27 $\frac{1}{2}$ B.T.
68.50	Top of ridge, 50 ft.above $\frac{1}{4}$ sec.cor., bears NE.and SW. Desc.
79.98	Cor.of secs.21, 22, 27 and 28. Land, mountainous. Soil, black loam, 1st rate. Timbe, r, aspen, cedar and pine. Undergrowth, sage brush. Good grass for grazing. Mountainous, or heavily timbered land, 79.98 chs.
	N.0°2'W., on a true line bet.secs.21 and 22. Over mountainous land, through heavy timber and dense undergrowth. Asc.
40.00	Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the ground for $\frac{1}{4}$ sec.cor..mkd.on brass cap, $\frac{1}{4}$ S 21 in W. half and S 22 in E.half; from which An aspen, 6 ins.in dia., bears N.88°E., 4 lks. dist..mkd. $\frac{1}{4}$ S 22 B.T. An aspen, 4 ins.in dia., bears N.62°W., 10 lks. dist..mkd. $\frac{1}{4}$ S 21 $\frac{1}{2}$ B.T.
43.00	Leave timber, bears N.60°W.and S.60°E.
55.00	Enter timber, bears NW.and SE.
80.00	Set an iron post, 3 ft.long, 2 ins.in dia., 24 ins.in the ground for cor.of secs.15, 16, 21 and 22..mkd.on brass cap T 19 S S 16 in NW. R 5 = E S 15 in NE.

Subdivison of T.19 S., R.5E-Continued.

Chains

S 22[✓] in SE; andS 21[✓] in SW, quadrants; from which

A red pine, 16 ins. in dia., bears N. 25° 30' E., 82
lks. dist..mkd. T 19 S R 5 E S 15[✓] B. T.

A red pine, 12 ins. in dia., bears S. 39° E., 45 lks.
dist..mkd. T 19 S R 5 E S 22[✓] B. T.

A red pine, 12 ins. in dia., bears S. 84° 30' W., 142
lks. dist..mkd. T 19 S R 5 E S 21[✓] B. T.

A red pine, 7 ins. in dia., bears N. 8° W., 53 lks.
dist..mkd. T 19 S R 5 E S 16[✓] B. T.

Land, mountainous.

Soil, rocky; 2nd rate.

Timber, red pine aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

S. 89° 57' E. on a random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.12 Intersect the N. and S. line 5 lks. N. of the cor. of
secs. 14, 15, 22 and 23.

Thence I run

N. 89° 55' W., on a true line bet. secs. 15 and 22.

Over mountainous land, through scattering timber and
dense undergrowth,

Asc.

1.00 Leave timber, bears N. and S.

40.06 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 15[✓] in N half
and S 22[✓] in S half; dig pits, 18x18x12 ins. E. and W. of
post, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, N. of cor.

Subdivision of T.19 S., R.5 E-Continued.

Chains

- 44.50 Top of spur, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. and S.
 Desc.
- 57.00 Bottom of hollow, 150 ft. below spur, course N. 30° E.
 Asc.
- 78.50 Top of spur, 350 ft. above hollow, bears N. and S.
 Desc.
- 79.90 Bottom of swale, 20 ft. below spur, course N.
 Asc.
- 80.12 Cor. of secs. 15, 16, 21 and 22.
 Land, mountainous.
 Soil, gravelly; 2nd rate.
 Timber, aspen.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land or land covered with dense undergrowth,
 80.12 chs.
- June 18, 1910.
-
- June 19, 1910: At 8 h 1 m a.m., l.m.t., I set off $39^{\circ}10'N.$
 on the lat. arc; $23^{\circ}26'N.$, on the decl. arc; and determined
 a meridian with the solar at the cor. of secs. 15, 16, 21 and
 22.
 Thence I run $N.0^{\circ}2'W.$, on a true line bet. secs. 15 and 16.
 Over mountainous land, through scattering timber and
 dense undergrowth.
 Desc. along small hollow, course N. 30° E.
 22.00 Leave hollow, course N. 30° E.
 Leave timber, bears N. 30° E. and S. 30° W. Ascend
 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
 ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 16 in W.

Subdivison of T.19 S., R.5 E.-Continued.

Chains and S 15 in E half; from which

An aspen 5 ins. in dia., bears N.36°30'E., 278

lks. dist..mkd. $\frac{1}{4}$ S 15^V B T.

A red pine, 4 ins. in dia., bears S.53°10'W., 407

lks. dist..mkd. $\frac{1}{4}$ S 16^V B T.

59.00 Top of ascent, bears E. and W.

76.50 Creek, 10 lks. wide, 6 ins deep in bottom of hollow, 500 ft.

below $\frac{1}{4}$ sec. cor., course N.70°E.,

Asc. over ledges.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the

ground for cor. of secs. 9, 10, 15 and 16..mkd. on brass cap

T 19 S S 9^V in NW.

R 5 E S 10^V in NE.

S 15^V in SE; and.

S 16^V in SW, quadrants; from which

A pinon pine, 12 ins. in dia., bears N.11°E., 95 lks.

dist..mkd. T 19 S R 5 E S 10^V B T.

A cedar, 13 ins. in dia., bears S.31°E., 30 lks.

dist..mkd. T 19 S R 5 E S 15^V B T.

A pinon pine, 14 ins. in dia., bears S.27°30'W., 50

lks. dist..mkd. T 19 S R 5 E S 16^V B T.

A pinon pine, 12 ins. in dia., bears N.29°W., 95

lks. dist..mkd. T 19 S R 5 E S 9^V B T.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar, pinon and red pine and aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

Subdivision of T.19-S., R.5-E. Continued.

Chains

S.89°55'E., on a random line bet. secs. 10 and 15.

40.00 Set temp. $\frac{1}{4}$ sec. cor. th. cor. 1, course N. 25° E.80.24 Intersect the N. and S. line 11 lks. N. of the cor. of
secs. 10, 11, 14 and 15.

Thence I runned at right angles 6, course S. 10° E. 02.00

N. 89°50'W., on a true line bet. secs. 10 and 15. 100

Over mountainous land, through scattering timber and

dense undergrowth. 80.00

Asc. over ledges. 81, 01, 2, sec. 10, sec. 10, sec. 10

6.00 Top of spur, 500 ft. above sec. cor., bears N. and S.

Desc. over ledges. 81, 01, 2, sec. 10, sec. 10, sec. 10

34.00 Bottom of hollow, 400 ft. below spur, course N.

Asc. over ledges. 81, 01, 2, sec. 10, sec. 10, sec. 10

34.50 Leave ledges, bears N. and S. 100

40.12 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 10 in N
half and S 15 in S half; from which

A red pine, 6 ins. in dia., bears N. 17° E., 39 lks.

dist. mkd. $\frac{1}{4}$ S 10 B. T.

A red pine, 7 ins. in dia., bears S. 29° W., 7

lks. dist. mkd. $\frac{1}{4}$ S 15 B. T.53.00 Top of spur, 350 ft. above $\frac{1}{4}$ sec. cor., bears N. and S.

Desc. 100

74.00 Creek, 10 lks. wide, 5 ins. deep in bottom of hollow, 400
ft. below spur, course N. 25° E.

Asc. over ledges. 100

76.50 Leave ledges, bears N. and S. 100

80.24 Cor. of secs. 9, 10, 15 and 16. 100

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar, pinon pine and aspen.

Undergrowth, sage brush.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.24 chs.
	N.0°2'W., on a true line bet. secs. 9 and 10.
	Over mountainous land, through heavy timber and scatter- ing undergrowth.
	Asc.
4.00	Leave heavy timber and enter scattering, bears E. and W.
6.59	Top of ridge, 100 ft. above sec. cor., bears E. and W. Desc.
19.60	Creek, 20 lks. wide, 1 ft. deep, in bottom of Ferron Creek Canon, 500 ft. below ridge, course S. 80° E.
20.30	Left bank of Creek. Asc. over ledges.
25.00	Leave ledges, bears E. and W.
39.00	Top of ascent, edge of mesa, 500 ft. above Canon, bears N. 60° W. and S. 60° E. Thence over McEwan Flat.
39.50	Leave timber, bears N. 60° W. and S. 60° E. Enter dense undergrowth, bears N. 60° W. and S. 60° E.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 9° in W. half and S 10° in E. half; from which A mahogany, 7 ins. in dia., bears S. 25° 30' E., 63 lks. dist. mkd. $\frac{1}{4}$ S 10° B T. A cedar, 14 ins. in dia., bears N. 62° 45' W., 72 lks. dist. mkd. $\frac{1}{4}$ S 9° B T.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 36 ins. in the ground, for cor. of secs. 3, 4, 9 and 10. mkd. on brass cap

Subdivision of T.19 S., R.5 E-Continued.

Chains

T 19 S S 4 in NW.

R 5 E S 3 in NE.

S 10 in SE; and

S 9 in SW, qudarants; raise a mound of stone,

2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, aspen and balson.

Undergrowth, sage brush

Good grass for grazing.

Mountainous, or heavily timbered land, 80.00 chs.

June 19, 1910: At this cor. I set off $23^{\circ}26'N.$ on the decl. arc; and at 12 h 1 m p.m., l.m.t., I observe the sun on the meridian the resulting lat. is $39^{\circ}11'N.$, which is the proper lat. nearly.

S. $89^{\circ}50'E.$ on a randon line bet. secs. 3 and 10.40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.14 Intersect the N. and S. line 10 lks. N. of the cor. of

secs. 2, 3, 10 and 11.

Thence I run

N. $89^{\circ}46'W.$ on a true line bet. secs. 3 and 10.

Over mouountainous land, through scattering timber and dense undergrowth. Desc.

2.50 Ridge bears NE. and SW.

6.50 Enter heavy timber, bears N. and S.

11.50 Enter scattering timber, and leave heavy bears N. and S.

21.30 Bear Creek, 20 lks. wide, 2 ins. deep, course SE.

40.07 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 3 in N half and S 10 in S half; from which

A cedar, 7 ins. in dia., bears N. $43^{\circ}W.$, 36 lks.dist. mkd. $\frac{1}{4}$ S 3 B.T.A mahogany, 4 ins. in dia., bears S. $20^{\circ}W.$, 36 lks.

Subdivision of T. 19 S., R. 5 E.- Continued.

Chains. dist., mkd. $\frac{1}{4}$ S 10 B T

Ascend.

58.50 Top of ascent; enter McEwan Flat bears NW. and SE.

80.14 The cor. of secs. 3, 4, 9, and 10.

Land, mountainous.

Soil, gravelly; 2d rate.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth 80.14 chs.

N. 0° 2' W. on random line bet. secs. 3 and 4,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.70 Intersect the N. bdy. of Tp. 5 lks. W. of the cor. of secs. 3, 4, 33, and 34, heretofore described.

Thence I run

South on a true line bet. secs. 3 and 4,

Over mountainous land; through dense undergrowth.

Asc.

2.00 Top of ridge, 50 ft. above sec. cor., bears E. and W.

Desc.

39.00 Enter scattering timber, bears E. and W.

39.70 Set an iron post 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 4 in W. half and S 3 in E. half; from which

An oak 4 ins. in dia., bears N. 55° E. 10 lks. dist.

mkd. $\frac{1}{4}$ S 3 B T

An oak 4 ins. in dia., bears S. 50° W. 4 lks. dist.

mkd. $\frac{1}{4}$ S 4 B T

54.40 Desc. over ledges bears N. 70° W. and S. 70° E.

Subdivision of T. 19 S., R. 5 E. - Continued.

Chains.

60.30 Little Bear Creek, 12 lks. wide, 6 ins. deep, in bottom of
Little Bear Creek Canon, 100 ft. below $\frac{1}{4}$ sec. cor.,
course S. 80° E.

Asc.

69.00 Leave timber, bears E. and W.

70.00 Edge of McEwan Flat, bears E. and W.

79.70 The cor. of secs. 3, 4, 9, and 10.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar and pinon pine, oak, mahogany and red pine.

Undergrowth, sagebrush and service berries.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth

79.70 chs.

June 19, 1910.

June 20, 1910: At 8 h. 1 m. a. m. I set off 39° 07' N.
on the lat. arc; 23° 27' N. on the decl. arc; and determine
a meridian with the solar at the cor. of secs. 4, 5, 32, and
33 of S. bdy. of Tp., heretofore described.

Thence I run

N. 0° 3' W. on a true line bet. secs. 32 and 33,
Over mountainous land; through scattering timber and
dense undergrowth.

Asc.

4.00 Top of divide ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears N.
60° W. and S. 60° E.

Desc.

27.00 Bottom of hollow, 100 ft. above ridge, course N. 60° E.
Asc.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 32 in W, half and S 33 in E, half; from which
- A bal 88^m, 10 ins. in dia., bears S. 42° E., 77 lks. dist. mkd. $\frac{1}{4}$ S 33 B T.
- A white pine, 16 ins. in dia., bears S. 33° W., 101 lks. dist. mkd. $\frac{1}{4}$ S 32 B T.
- 45.00 Top of ridge, 100 ft. above $\frac{1}{4}$ sec. cor., bears N. 20° E. and S. 20° W.
- Desc.
- 79.00 Bottom of hollow, 500 ft. below ridge, course N. 70° W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs 22, 23 and 33. mkd. on brass cap
- T 19 S S 22 in NW.
- ✓ R 5 E S 28 in NE.
- S 33 in SE; and
- S 32 in SW, quadrants; from which
- A white pine, 10 ins. in dia., bears N. 50° E., 29 lks. dist. mkd. T 19 S R 5 E S 28 B T.
- A white pine, 8 ins. in dia., bears S. 21° E., 19 lks. dist. mkd. T 19 S R 5 E S 32 B T.
- A white pine, 12 ins. in dia., bears S. 64° 30' W., 68 lks. dist. mkd. T 19 S R 5 E S 32 B T.
- A white pine, 14 ins. in dia., bears N. 24° W., 18 lks. dist. mkd. T 19 S R 5 E S 22 B T.
- Land, mountainous.
- Soil, gravelly; 2nd rate.
- Timber, white pine, red pine, pinon pine and balson.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth,
- 80.00 chs. ...

Subdivision of T.19 S., R.5 E-Continued.

Chains

East on a random line bet.secs.28 and 33.

40.00 Set temp. $\frac{1}{4}$ sec.cor.79.86 Intersect the N.and S.line, 10 lks.N.of the cor.of secs
27, 28 33 and 34.

Thence I run

N.89°56'W., on a true line bet.secs.28 and 33.

Over mountainous land, through heavy timber and dense
undergrowth.

Desc.

.20 Creek, 3 lks.wide, 4 ins.deep, in bottom of Wrigley Canon,
100 ft.below Sec.cor., course N.40°E.

Asc.

10.00 Top of ridge, 50 ft.above Canon, bears NE.and SW.

Desc.

16.80 Creek, 4 lks.wide, 2 ins.deep, in bottom of hollow,
course N.60°E.

Thence along Creek.

19.70 Leave Creek, course S.60°E.

Asc.

n33.00 A spring bears N.100 lks.dist., course E.

39.93 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the g
ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 28 in N
half and S 33 in S half; from whichAn aspen, 6 ins.in dia., bears N.63°E., 16 lks.
dist..mkd. $\frac{1}{4}$ S 28 B T.An aspen, 5 ins.in dia., bears S.15°E., 43 lks.
dist..mkd. $\frac{1}{4}$ S 33 B T.70.00 Top of ridge, 400 ft.above $\frac{1}{4}$ sec.cor., bears N.30°E.and
S.30°W.:

Desc.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	
73.50	Bottom of hollow, 100 ft. below ridge, course N.30°E.
	Asc.
77.00	Top of ridge, 150 ft. above hollow, bears N.30°E. and S.30°W.,
	Desc.
79.86	Cor. of secs. 28, 29, 32 and 33.
	Land, mountainous.
	Soil, gravelly; 2nd rate.
	Timber, cedar aspen and pinon pine.
	Undergrowth, sage brush
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
	79.86 chs.
	<hr/>
	N.0°3'W., on a true line bet. secs. 28 and 29.
	Over mountainous land, through heavy timber and dense undergrowth.
	Asc.
.50	Top of ridge, 20 ft. above sec. cor., bears E. and W.
	Desc.
2.00	Bottom of hollow, 50 ft. below ridge, course NW.
	Asc.
4.00	Top of spur, 50 ft. above hollow, bears NW. and SE.
	Desc.
8.00	Bottom of hollow, 150 ft. above spur, course N.60°E.
	Asc.
9.00	Top of spur, 25 ft. above hollow, bears N.60°E. and S.60°W.
	Desc.
12.00	Foot of descent, bears E. and W.
27.30	Road, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the

Subdivision of T.19 S., R.5 E- Continued.

Chains ground for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 29 in W. half and S 28 in E.half;from which

A red pine,6 ins.in dia.,bears S.60°E.,9 lks.dist..mkd. $\frac{1}{4}$ S 28 B T.

A red pine,24 ins.in dia.,bears S.75°W.,21 lks.dist..mkd. $\frac{1}{4}$ S 29 B T.

60.00 Leave timber,bears E.and W.

70.00 Enter timber and leave dense undergrowth,bears E.and W.

80.00 Set an iron post, 3 ft.long,2 ins.in dia.,24 ins.in the ground,for cor.of secs.20,21,28 and 29..mkd.on brass cap T 19 S S 20 in NW.
R 5 E S 21 in NE.
S 28 in SE;and
29 in SW,quadrants;from which

An aspen,8 ins.in dia.,bears N.6°30'E.,29 lks.dist..mkd.T 19 S R 5 E S 21 B T.

A red pine,6 ins.in dia.,bears S.28°30'E.,53 lks.dist..mkd.T 19 S R 5 E S 28 B T.

A white pine,14 ins.in dia.,bears S.71°W.,61 lks.dist..mkd.T 19 S R 5 E S 29 B T.

A red pine,6 ins.in dia.,bears N.83°30'W.,34 lks.dist..mkd. T 19 S R 5 E S 20 B T.

Land,mountainous

Soil,gravelly;2nd rate.

Timber,white pine,aspen and cedar.

Undergrowth,sage brush.

Good grass for grazing.

Mountainous land,or land covered with dense undergrowth, 80.00 chs.

June 20,1910:At this cor.I set off 23°27'N.,on the decl.arc;and at 12 h.1 m P.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 39°09'N.,which is the proper lat.nearly.

Subdivision of T.19 S., R.5 E-Continued.

Chains

S.89°56'E., on a random line, bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.79.96 Intersect the N. and S. line 5 lks. S. of the cor. of secs.
21, 22, 27 and 28.

Thence I run

S.89°58'W., on a true line bet. secs. 21 and 28.

Over mountainous land, through scattering timber and
dense undergrowth.

Asc.

12.00 Enter heavy timber, bears N. and S.

38.00 Top of ridge, 100 ft. above sec. cor., bears N. and S.

Desc.

39.98 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 21 in N
half and S 28 in S half; from whichA white pine, 36 ins. in dia., bears N. 21°55'W.,
173 lks. dist. mkd. $\frac{1}{4}$ S 21 B T.A white pine, 12 ins. in dia., bears S. 53°15'E.,
267 lks. dist. mkd. $\frac{1}{4}$ S 28 B T.72.000 Bottom of hollow, 100 ft. below $\frac{1}{4}$ sec. cor., course N. 10°W.

Asc.

79.96 Cor. of secs. 20, 21, 28 and 29.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, white pine and aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,
79.96 chs.

Subdivision of T.19 S., R.5 E.-Continued.

- Chains N.0°3'W., on a true line bet. secs. 20 and 21..
Over mountainous land, through heavy timber and dense undergrowth.
Desc.
- 28.00 Creek, 2 lks. wide, 6 ins. deep, in bottom of hollow, 200 ft. below sec. cor. course NW.
Asc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 20 in W. half and S 21 in E. half; from which
An aspen, 4 ins. in dia., bears N.79°E., 17 lks.
dist. mkd. $\frac{1}{4}$ S 21 B T.
An aspen, 6 ins. in dia., bears N.36°W., 35 lks.
dist. mkd. $\frac{1}{4}$ S 20 B T.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 16, 17, 20 and 21. mkd. on brass cap
T 19 S S 17 in NW.
R 5 E S 16 in NE.
S 21 in SE; and
S 20 in SW, quadrants; from which
An aspen, 6 ins. in dia., bears N.34°E., 26 lks.
dist. mkd. T 19 S R 5 E S 16 B T.
An aspen, 5 ins. in dia., bears S.39°E., 20 lks.
dist. mkd. T 19 S R 5 E S 21 B T.
An aspen, 5 ins. in dia., bears S.5°40'W., 54 lks.
dist. mkd. T 19 S R 5 E S 20 B T.
An aspen, 5 ins. in dia., bears N.81°40'W., 14 lks.
dist. mkd. T 19 S R 5 E S 17 B T.
- Land, mountainous.
Soil, gravelly; 2nd rate.
Timber, aspen and white pine.
undergrowth, sage brush.
Good grass for grazing.

Subdivision of T.19, S., R.5 E -Continued.

Chains Mountainous, or heavily timbered, land, 80.00 chs.

N.89°58'E., on a random line bet. secs. 16 and 21.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect the N. and S. line, 7 lks. S. of the cor. of secs. 15, 16, 21 and 22.

Thence I run

N.89°55'W., on a true line bet. secs. 16 and 21.

Over mountainous land, through scattering timber and dense undergrowth.

Asc.

15.50 Top of spur, 100 ft. above sec. cor., bears N.10°W. and S.10°E.

Desc.

30.00 Enter heavy timber, bears N. and S.

38.00 Leave heavy timber and enter scattering, bears N. and S.

40.05 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 16 in N half and S 21 in S half; from which

A red pine, 4 ins. in dia., bears N.26°E., 21 lks. dist..mkd. $\frac{1}{4}$ S 16 B T.

A red pine, 12 ins. in dia., bears S.26°W., 25 lks. dist..mkd. $\frac{1}{4}$ S 21 B T.

41.00 Enter heavy timber, bears N. and S.

51.00 Leave timber, bears N. and S.

61.25 Enter timber, bears N. and S.

70.50 Leave timber, bears N. and S.

77.50 Enter timber, bears N. and S.

80.10 Cor. of secs. 16, 17, 20 and 21.

Land, mountainous.

Soil, gravelly.

Timber, aspen and red pine.

Subdivision of T.19 S., R.5 E-Continued.

Chains Mountainous land, or land covered with dense undergrowth,
80.10 chs.

June 20, 1910.

June 21, 1910: At 8 h 1 m a.m., l.m.t., I set off $39^{\circ}10'N.$,
on the lat. arc; $23^{\circ}28'N.$, on the decl. arc; and determine a
meridian with the solar at the cor. of secs. 16, 17, 20
and 21.

Thence I run

$N.0^{\circ}3'W.$, on a true line bet. secs. 16 and 17.

Over mountainous land, through heavy timber and dense
undergrowth.

Desc.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for $\frac{1}{4}$ Sec. cor. mkd. on brass cap $\frac{1}{4}$ S 17 in W.
half and S 16 in E. half; from which

An aspen, 7 ins. in dia., bears $N.81^{\circ}E.$, 125 lks.
dist. mkd. $\frac{1}{4}$ S 16 B T.

An aspen, 6 ins. in dia., bears $S.49^{\circ}W.$, 13 lks.
dist. mkd. $\frac{1}{4}$ S 17 B T.

42.50 Creek, 11 lks. wide, 2 ins. deep in bottom of hollow,
100 ft. below $\frac{1}{4}$ sec. cor., course $N.80^{\circ}E.$

Asc.

44.00 Leave timber, bears E. and W.

59.50 Top of ascent, bears $N.60^{\circ}E.$ and $S.60^{\circ}W.$ Descend.

75.00 Foot of descent, bears $NW.$ and $SW.$

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground for cor. of secs. 8, 9, 16 and 17. mkd. on brass
cap

T 19 S S 8 in NW.

R 5 E S 9 in NE.

S 16 in SE; and

S 17 in SW, quadrant; from which

Subdivision of T.19 S., R.5 E-Continued.

Chains

A red pine, 6 ins. in dia., bears N.54°E., 23 lks.

dist..mkd. T 19 S R 5 E S 9[✓] B T.

A red pine, 9 ins. in dia., bears S.74°E., 88 lks.

dist..mkd. T 19 S R 5 E S 16[✓] B T.

A red pine, 7 ins. in dia., bears S.34°W., 147

lks. dist..mkd. T 19 S R 5 E S 17[✓] B T.

A red pine, 4 ins. in dia., bears N.8°30'W., 23

lks. dist..mkd. T 19 S R 5 E S 8[✓] B T.

Land, mountainous.

Soil, gravelly.

Timber, red pine and aspen.

undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

S.89°55'E., on a random line bet. secs. 9 and 16.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

79.94 intersect the n. and s. line 9 lks. S. of the cor. of secs.

9, 10, 15 and 16.

thence I run

N.89°59'W., on a true line bet. secs. 9 and 16.

over mountainous land, through heavy timber and dense

undergrowth.

Asc.

16.50 Leave timber, bears NE. and SW.

23.60 Top of ridge, 100 ft. above sec. cor., bears N.60°E. and

S.60°W.

Desc.

25.00 Enter timber, bears N. and S.

35.50 bottom of hollow, 200 ft. below ridge, course N.

Asc.

Subdivision of T. 19 S., R. 5 E. -Continued.

Chains

- 39.97 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 9 in N half and S 16 in S half; from which
- An oak, 4 ins. in dia., bears N. 19° E., 58 lks. dist.. mkd. $\frac{1}{4}$ S 9 B T.
 - An aspen, 5 ins. in dia., bears S. 57° E., 42 lks. dist.. mkd. $\frac{1}{4}$ S 16 B T.
- 41.00 Spur, 100 ft. below $\frac{1}{4}$ sec. cor., bears N. and S.
Desc.
- 49.00 Bottom of hollow, 100 ft. below ridge, course N.
Asc.
- 57.00 Leave timber, bears NW. and SE.
- 76.00 Top of spur, 250 ft. above hollow, bears N. and S.
Desc.
- 79.94 Cor. of secs. 8, 9, 16 and 17.
Land, mountainous.
Soil, gravelly; 2nd rate.
Timber, aspen and oak.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land or land covered with dense undergrowth,
79.94 chs.
-
- N 0° 3' W., on a true line bet. secs. 8 and 9.
Over nearly level land, through scattering timber and dense undergrowth.
Desc.
- 36.00 Creek, 20 lks. wide, 8 ins. deep, in bottom of Ferron Canon, 600 ft. below sec. cor., course N. 80° E.
Asc.
- 40.00 Set an iron post, 3 ft. long, 2 ins. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 8 in W. half

Subdivision of T.19 S., R.5 E-Continued.

Chains	and S 9 in E.half;from which
	A pinon pine,14 ins.in dia.,bears N.57°E.,77 lks. dist..mkd. $\frac{1}{4}$ S 9 B T.
	A pinon pine,26 ins.in dia.,bears S.69°W.,29 lks dist..mkd. $\frac{1}{4}$ S 8 B T.
74.00	Top of ascent,bears E.and W. ; McEwan Flat.
80.00	Set an iron post,3 ft.long,2 ins.in dia.,24 ins.in the ground for cor.of secs.4,5,8 and 9..mkd.on brass cap T 19 S S 5 in NW. R 5 E S 4 in NE. S 9 in SE;and S 8 in SW,quadrants;from which A lone red pine,9 ins.in dia.,bears S.79°W., 488 lks.dist..mkd. T 19 S R 5 E S 8 B T.
	No other trees within limit;dig pits,18x18x12 ins.in each sec.5 $\frac{1}{2}$ ft.dist;and raise a mound of earth,4 ft.base, 2 ft.high,W.of cor.
	Land,mountainous.
	Soil,gravelly.
	Timber,red pine and aspen.
	Undergrowth,sage brush
	Good grass for grazing.
	Nearly level land or land covered with dense undergrowth, 80.00 chs.
	June 21,1910:At this cor.I set off 23°27'N.,on the decl. arc;and at 12 h 1 m p.m.,l.m.t.,I observe the sun on the meridian,the resulting lat.is 39°11'N.,which is the proper lat.nearly.
	S.89°59'E.,on a random line bet.secs.4 and 9.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
79.80	Intersect the N.and S.line 6 lks.S.of the cor.of secs. 3,4,9 and 10.

Subdivision of T.19 S., R.5 E-Continued.

Chains	Thence I run
	S.89°58'W., on a true line bet. secs. 4 and 9.
	Over mountainous land, through scattering timber and dense undergrowth,
	Desc.
8.00	Leave dense undergrowth and enter heavy timber, bears N. and S.
13.00	Leave heavy timber and enter scattering undergrowth, bears NW. and SE.
39.90	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground on solid rock bottom and surrounded by mound of earth and stone, ... mkd. on brass cap $\frac{1}{4}$ S 4 ¹ in N half and S 9 ¹ in S half; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
79.80	Cor. of secs. 4, 5, 8 and 9.
	Land, mountainous.
	Soil, gravelly; 2nd rate.
	Timber, cedar and pinon pine.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
	79.80 chs.
	<hr/>
	N.0°3'W., on a random line bet. secs. 4 and 5.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.80	Intersect the N. bdy. of Tp. 3 lks. W. of the cor. of secs. 4, 5, 32 and 33, heretofore described.
	Thence I run
	S.0°2'E., on a true line bet. secs. 4 and 5.
	Over mountainous land, through scattering undergrowth.
	Desc.
33.80	Creek, 15 lks. wide, 6 ins. deep in bottom of Little Bear Creek Canon, 300 ft. below sec. cor., bourse S.70°E.

Subdivision of T.19.S.,R.5 E.-Continued.

Chains	Asc. : through timber.
39.80	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S. 5° in W. half and S 4° in E. half; from which A red pine, 12 ins. in dia., bears N. $61^{\circ}45'$ E., 162 lks. dist. mkd. $\frac{1}{4}$ S 4° B T. A cedar, 4 ins. in dia., bears N. 41° W., 124 lks. dist. mkd. $\frac{1}{4}$ S 5° B T.
51.00	Leave scattering timber, bears E. and W.
58.00	Enter timber, bears N. and S.
60.00	Top of ascent, bears N. 70° W. and S. 70° E. McEwan Flat.
79.80	Cor. of secs. 4, 5, 8 and 9. Land, mountainous. Soil, gravelly; 2nd rate. Timber, cedar and pinon and red pine. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 79.80 chs.

June 21, 1910.

June 22, 1910: At 8 h 2 m a.m., l.m.t., I set off $39^{\circ}07'$ N., on the lat. arc; $23^{\circ}28'$ N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 5, 6, 31 and 32, on S. bdy. of Tp., heretofore described.
Thence I run
N. $0^{\circ}3'$ W., on a true line bet. secs. 31 and 32.
Over mountainous land, thorough scattering timber and dense undergrowth.

subdivision of T.19 S., R.5 E-Continued.

Chains	Asc.
7.40	Top of steep ascent, bears E. and W. Asc. gradually.
15.00	Top of divide ridge, 200 ft. above sec. cor., bears E. and W. Desc.
26.00	Enter heavy timbers, bears E. and W.
30.00	Leave heavy timber and enter scattering, bears E. and W.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 31 in W. half and S 32 in E. half; from which A white pine, 6 ins. in dia., bears S. 32° E., 205 lks. dist. mkd. $\frac{1}{4}$ S 32 B T. A white pine, 12 ins. in dia., bears N. 82° 30' W., 179 lks. dist. mkd. $\frac{1}{4}$ S 31 B T.
48.10	Begin abrupt descent, bears E. and W. Enter heavy timber, bears E. and W.
75.50	Foot of steep descent, bears E. and W.
80.00	Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground for cor. of secs. 29, 30, 31 and 32. mkd. on brass cap T 19 S S 30 in NW. R 5 E S 29 in NE. S 32 in SE. and S 31 in SW; quadrants; from which An aspen, 5 ins. in dia., bears N. 40° E., 15 lks. dist. mkd. T 19 S R 5 E S 29 B T. A white pine, 8 ins. in dia., bears S. 26° E., 39 lks. dist. mkd. T 19 S R 5 E S 32 B T. A white pine, 7 ins. in dia., bears S. 19° W., 93 lks. dist. mkd. T 19 S R 5 E S 31 B T. An aspen, 14 ins. in dia., bears N. 33° W., 33 lks. dist. mkd. T 19 S R 5 E S 30 B T.
	Land, mountainous. Soil, gravelly; 2nd rate.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	Timber, white pine and aspen. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	East on a random line bet. secs. 29 and 32.
40.00	Set temp. $\frac{1}{2}$ sec. cor.
80.18	Intersect the N. and S. line, 9 lks. S. of the cor. of secs. 28, 29, 32 and 33. Thence I run S. $89^{\circ}56'W.$, on a true line bet. secs. 29 and 32. Over mountainous land, through heavy timber and dense undergrowth. Desc.
8.00	A small lake, bears N. 4 chs. dist. from this point.
10.00	Bottom of Creek, 2 lks. wide, 2 ins. deep, course N. Asc.
30.00	West edge of reservoir, bears N. about 20 chs. dist.
40.09	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. on brass cap $\frac{1}{2}$ S 29 in N half and S 32 in S half; from which A balsam, 8 ins. in dia., bears N. $10^{\circ}W.$, 55 lks. dist. mkd. $\frac{1}{2}$ S 29 B T. A balsam, 7 ins. in dia., bears S. $10^{\circ}W.$, 15 lks. dist. mkd. $\frac{1}{2}$ S 32 B T.
41.50	Creek, 2 lks. wide, 1 in. deep, course N.
46.00	Creek, 3 lks. wide, 3 ins. deep, course N.
56.00	Creek, 3 lks. wide, 2 ins. deep, course N.
60.00	E. edge of reservoir, bears N. 15 chs. dist.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

66.00 Creek, 3 lks. wide, 2 ins. deep, course N.

Asc.

77.00 Top of spur, 25 ft. above $\frac{1}{4}$ sec. cor., bears N. and S.

Desc.

80.18 Cor. of secs. 29, 30, 31 and 32.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar and balsam.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.18 chs.

West on a random line bet. secs. 30 and 31.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

85.10 Intersect W. bdy. of Tp. at the cor. of secs. 30 and 31.

heretofore described. Thence I run

East on a true line bet. secs. 30 and 31.

Over mountainous land, through heavy timber and scattering undergrowth.

Desc.

17.60 Creek, 2 lks. wide, 6 ins. deep, in bottom of hollow, 100 ft. below sec. cor., course S. 60° E.

Asc.

22.60 Top of spur, 100 ft. above hollow, bears N. 60° W. and S. 60° E.

Leave heavy timber, bears N. 60° E. and S. 60° W.

Desc. abruptly.

27.10 Foot of abrupt descent, bears N. 60° W. and S. 60° E.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	
28.10	A small pond, bears North 4 chs, dist.
37.60	A small pond, bears North 3 chs. dist. Enter heavy timber, bears N. and S.
45.10	Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor.. mkd. on brass cap $\frac{1}{4}$ S 30° in N half and S 31° in S half; from which An aspen, 10 ins. in dia., bears N. 39° W., 30 lks. dist.. mkd. $\frac{1}{4}$ S 30° E T. A white pine, 6 ins. in dia., bears S. 1° E., 13 lks. dist.. mkd. $\frac{1}{4}$ S 31° E T.
46.90	Creek, 3 lks. wide, 3 ins. deep, course N. 20° E. Asc.
49.10	Top of spur, 100 ft. above Canon, bears N. and S. Desc.
57.60	Creek, 6 lks. wide, 12 ins. deep, in bottom of Canon, 100 ft. below spur, course N. Asc.
67.10	Top of spur, 100 ft. above hollow, bears N. and S. Desc.
80.60	Creek, 2 lks. wide, 2 ins. deep, course N.
84.30	Creek, 2 lks. wide, 2 ins. deep, in bottom of hollow, 100 ft. Below spur, course N. 20° W. Asc.
85.10	Cor. of secs. 29, 30, 31 and 32. Land, mountainous. Soil, gravelly; 2nd rate. Timber, white pine, red pine and aspen. Undergrowth, sage brush. Good grass for grazing. Mountainous, or heavily timbered land, 85.10 chs.

Subdivision of T.19 S. R. 5 E. - Continued.

Chains

N.0°3'W., on a true line bet. secs. 29 and 30.

Over mountainous land, through heavy timber and scattering undergrowth.

Desc.

3.00 Begin abrupt descent, bears E. and W.

11.00 Foot of descent, bears E. and W.

Leave timber, bears E. and W.

16.60 Road from Sawmill to Ferron, bears N.80°E. and S.80°W.

19.00 Enter heavy timber, bears E. and W.

31.70 Creek, 6 lks. wide, 12 ins. deep, course NW.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 30 in W. half and S 29 in E. half; from which

An aspen, 6 ins. in dia., bears S.15°E., 20 lks. dist. mkd. $\frac{1}{4}$ S 29 B T.

An aspen, 4 ins. in dia., bears S.5°W., 15 lks. dist. mkd. $\frac{1}{4}$ S 30 B T.

54.00 Begin steep descent, bears E. and W.

64.00 Foot of abrupt descent, bears E. and W.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 19, 20, 29 and 30. mkd. on brass cap

T 19 S S 19 in NW.

R 5 E S 20 in NE.

S 29 in SE; and

S 30 in SW, quadrants; from which

An aspen, 5 ins. in dia., bears N.55°E., 21 lks.

dist. mkd. T 19 S R. 5 E S 20 B T.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

An aspen, 14 ins. in dia., bears S. 21° E., 48 lks.
dist. mkd. T 19 S R 5 E S 29 B T.

AN aspen, 6 ins. in dia., bears S. 38° W., 20 lks.
dist. mkd. T 19 S R 5 E S 30 B T.

An aspen, 6 ins. in dia., bears N. 62° W., 15 lks. dist.
mkd. T 19 S R 5 E S 19 B T.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, aspen and red pine.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous, or heavily timbered land, 80.00 chs.

June 22, 1910: At this cor. I set off $23^{\circ}27'$ N., on the decl.
arc; and at 12 h 0 m A.M., I observe the sun on the
meridian the resulting lat. is $39^{\circ}09'$ N., which is the
proper lat. nearly.

N. $89^{\circ}56'$ E., on a random line bet. secs. 20 and 29.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.16 Intersect the N. and S. line 11 lks. N. of the cor. of secs.
20, 21, 28 and 29.

Thence I run

N. $89^{\circ}59'$ W., on a true line bet. secs. 20 and 29.

Over mountainous land, through heavy timber and scatter-
ing undergrowth.

Desc.

29.85 Creek, 6 lks. wide, 12 ins. deep, in bottom of Canon, 250
ft. below sec. cor., course NE.

Asc.

40.08 Set an iron post, 3 ft. long, 1 in. in dia., 25 ins. in the
ground for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 20 in N
half and S 29 in S half; from which

Subdivision of T.19 S., R.5 -Continued.

Chains	An aspen, 6 ins. in dia., bears N. 4° E., 24 lks. dist. mkd. $\frac{1}{4}$ S 20 B T.
	An aspen, 10 ins. in dia., bears S. 40° E., 9 lks. dist. mkd. $\frac{1}{4}$ S 29 B T.
47.50	Leave timber, bears N. and S.
57.50	Top of ridge, 500 ft. above $\frac{1}{4}$ sec. cor., bears N. and S. Desc.
77.00	Enter heavy timber, bears N. and S.
80.16	Cor. of secs. 19, 20, 29 and 30. Land, mountainous. Soil, gravelly; 2nd rate. Timber, aspen and white pine. undergrowth, sage brush. Good grass for grazing. Mountainous, or heavily timbered land, 80.16 chs.
<hr/>	
	West on a true line bet. secs. 19 and 30. Over mountainous land, through heavy timber and scattering undergrowth. Desc.
4.10	Creek, 2 lks. wide, 2 ins. deep, course N.
11.20	Creek, 10 lks. wide, 12 ins. deep, in bottom of Canon, 50 ft. below sec. cor., course N.
	Asc.
12.00	Top of spur, 20 ft. above canon, bears N. and S.
15.60	Creek, 2 lks. wide, 2 ins. deep, course N.
24.00	Creek, 6 lks. wide, 24 ins. deep, course N.
40.00	Set an iron post, 3 ft. long, 1 in. in dia., 24 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 19 in N half and S 30 in S half; from which An aspen, 30 ins. in dia., bears N. 54° E., 12 lks. dist. mkd. $\frac{1}{4}$ S 19 B T.

Subdivision of T.19 S., R.5 E² Continued.

- Chains An aspen, 12 ins. in dia., bears S. 19° W., 17 lks.
dist..mkd. $\frac{1}{4}$ S 30[✓] B.T.
- 58.00 Land slide, 2 chs. wide, bears N. and S.
- 85.09 Intersect the West bdy. of Tp., 18.60 chs. South of the
cor. of secs. 13 and 24, T. 19 S., R. 4 E., which is a
sandstone, 20x18x12 ins., firmly set and mkd. and witness-
ed as described by the surveyor general.
Set an iron post, 3 ft. long, 2 ins. in dia. 120 in the
ground, on solid rock bottom and surrounded by mound of
stone, for closing cor. to cor. of secs. 19 and 30..mkd.
on brass cap
T 19 S in N half.
R 4 E S 13 C C S 24[✓] in W half
R 5 E S 19 S 30[✓] in E half; from which
A balsam, 6 ins. in dia., bears N. 12° E., 33 lks.
dist..mkd. T 19 S R 5 E S 19[✓] B.T.
A balsam, 14 ins. in dia., bears S. 40° E., 129 lks.
dist..mkd. T 19 S R 5 E S 30[✓] B.T.
- Land, mountainous.
- Soil, gravelly; 2nd rate.
- Timber, balsam and aspen.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous, or heavily timbered land, 85.09, chs.
-
- N. 0° 3' W., on a true line bet. secs. 19 and 20.
Over mountainous land, through scattering timber and
dense undergrowth.
- Desc.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 19 in W.
half and S 20 in E. half; from which

Subdivision of T.19 S., R.5 E -Continued.

- Chains
- An aspen, 4 ins. in dia., bears S. 51° E., 18 lks.
dist..mkd. $\frac{1}{4}$ S 20° B T.
- An aspen, 8 ins. in dia., bears N. 6° W., 32 lks.
dist..mkd. $\frac{1}{4}$ S 19° B T.
- 57.50 Begin abrupt descent, bears NE. and SW.
- 63.90 Creek, 15 lks. wide, 12 ins. deep, in bottom of Canon, course
N. 50° E., 100 ft. below $\frac{1}{4}$ sec. cor.
- Asc...
- 69.00 Top of spur, 100 ft. above Canon, bears E. and W.
- Desc.
- 72.50 Bottom of swale, 40 ft. above spur, course E.
- Asc.
- 76.75 Leave timber, bears E. and W.
- 80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins.
in the ground for cor. of secs. 17, 18, 19 and 20..mkd.
on brass cap
- T 19 S S 18 in NW.
R 5 E S 17 in NE.
S 20 in SE; and
S 19 in SW, quadrants; dig pits, 18x18x12 ins. in
each sec., $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft.
base, 2 ft. high, W. of cor.
- Land, mountainous.
- Soil, gravelly; 3rd rate.
- Timber, aspen and balsam.
- Undergrowth, sage brush.
- Mountainous, or heavily timbered land, 80.00 chs.
-
- S 89° 59' E., on a random line, bet. secs. 17 and 20.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect the N. and S. line at the cor. of secs. 16, 17,
20 and 21.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	Thence I run N.89°59'W., on a true line bet. secs. 17 and 20. Over mountainous land, through heavy timber and scattering undergrowth. Asc.
10.00	Leave timber, bears N. and S.
14.00	Top of ridge, 50 ft. above sec. cor., bears N.30°W. and S.30°E. Desc.
16.00	Enter timber, bears NW. and SE.
20.50	Creek, 2 lks. wide, 1 in. deep, in bottom of hollow, 100 ft. below ridge, course N.30°W. Asc.
36.00	Top of spur, 50 ft. above hollow, bears N.30°W. and S.30°E. Desc.
40.00	Set an iron post, 3 ft. long, 1 in. dia., 26 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 17 in N half and S 20 in S half; from which: An aspen, 5 ins. in dia., bears N.10°W., 4 lks. dist. mkd. $\frac{1}{4}$ S 17 B T. An aspen, 5 ins. in dia., bears S.60°W., 3 lks. dist. mkd. $\frac{1}{4}$ S 20 B T.
50.00	Leave timber and enter dense undergrowth, bears NE. and SW.
56.30	Creek, 10 lks. wide, 6 ins. deep, in bottom of Canon, 25 ft. below $\frac{1}{4}$ Sec. cor., course NE. An old cabin, bears S. about 5 chs. dist. Asc.
80.00	Cor. of secs. 17, 18, 19 and 20. Land, mountainous. Soil; gravelly; 3rd rate. Timber, aspen. Undergrowth, sage brush. Mountainous, or heavily timbered land, 80.00 chs.

Subdivision of T.19 S., R.4 E-Continued.

Chains

June 22, 1910.

June 23, 1910: At 8 h 2 m a.m., l.m.t., I set off $39^{\circ}10'$ N., on the lat. arc; $23^{\circ}28'$ N., on the decl. arc; and determine a meridian with the solar at the cor. of secs. 17, 18, 19 and 20.

Thence I run

West on a true line bet. secs. 18 and 19.

Over mountainous land, through scattering timber and dense undergrowth.

Asc. gradually.

6.00 Top of flat ridge, 25 ft. above sec. cor., bears NE. and SW.

15.90 Desc. abruptly bears NE. and SW.

20.00 Enter heavy timber, bears N. and S.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 18 in N half and S 19 in S half; from which

A red pine, 8 ins. in dia., bears N. 35° W., 30 lks. dist. mkd. $\frac{1}{4}$ S 18 B T.

A red pine, 10 ins. in dia., bears S. 9° W., 22 lks. dist. mkd. $\frac{1}{4}$ S 19 B T.

42.00 Creek, 6 lks. wide, 12 ins. deep, course N.

Asc.

43.00 Top of spur, 20 ft. above $\frac{1}{4}$ sec. cor., bears North and South Desc.

47.20 Creek, 15 lks. wide, 30 ins. deep, in bottom of Canon, 50 ft. below spur, course NE.: Horse Creek.

Leave timber, bears NE. and SW.

80.00 Enter timber, bears N. and S.

84.99 Intersect the west bdy. of Tp., 18, 16 chs. South of the cor. of secs. 12 and 13, T. 19 S., R. 4 E., which is a

Subdivision of T.19 S., R.5 E. Continued.

Chains limestone, 18x12x6 ins., firmly set and mkd. and witness-
ed as described by the surveyor general.

Set an iron post, 3 ft. long 2 ins. in dia., 24 ins. in the
ground for closing corner to cor. of secs. 18 and 19..

mkd. on brass cap

T 19 S in N half

R 4 S 12 C C S 13 in W half

R 5 E S 18 S 19 in E half; from which

A balsam, 8 ins. in dia., bears N. 2° E., 10 lks.

dist. mkd. T 19 S R 5 E S 18 B T.

An aspen, 6 ins. in dia., bears S. 3° E., 8 lks.

dist. mkd. T 19 S R 5 E S 19 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, aspen and balsam.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

84.99 chs.

N. 0° 3' W., on a true line bet. secs. 17 and 18.

Over mountainous land, thorough scattering timber and
dense undergrowth.

Asc.

7.50 Top of ridge, 25 ft. above sec. cor., bears NE. and SW.

Desc. gradually.

28.00 Enter heavy timber, bears E. and W.

36.00 Leave timber, bears E. and W.

40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the
ground, for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 18 in W.
half and S 17 in E. half; from which

Subdivision of T.19 S., R.5 E-Continued.

Chains An aspen, 5 ins. in dia., bears S. 84° E., 102
lks. dist. mkd. $\frac{1}{4}$ S 17° B T.

No other trees within limit; raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

43.00 Bottom of hollow, 400 ft. below ridge, course NE.
Asc.

46.80 Top of spur, 50 ft. above hollow, bears NE. and SW.
Desc.

64.60 Creek, 20 lks. wide, 3 ft. deep, in bottom of Canon, 100 ft.
below spur, course NE.; Horse Creek.
Asc.

80.00 Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground for cor. of secs. 7, 8, 17 and 18. mkd. on brass
cap

T 19 S S 7 in NW.
R 5 E S 8 in NE.
S 17 in SE; and
S 18 in SW, quadrants; from which
A cedar, 7 ins. in dia., bears S. 20° W., 123 lks.
dist. mkd. T 19 S R 5 E S 18 B T.
A cedar, 4 ins. in dia., bears N. 48° 40' W., 52
lks. dist. mkd. T 19 S R 5 E S 7 B T.

No other trees within limit; raise a mound of stone, 2
ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar and aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth,
80.00 chs.

Subdivision of T.19 S., R.5 E.-Continued.

Chains

S.89°59'E., on a random line bet.secs.8 and 17.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

80.14 Intersect the N.and S.line, 18 lks.N.of the cor.of secs.
8,9,16 and 17.

Thence I run N.89°51'W., on a true line bet.secs.8 and 17.

Over mountainous land, through scattering timber and
dense undergrowth.

Desc.

40.07 Set an iron post, 3 ft.long, 1 in.in dia., 26 ins.in the
ground, for $\frac{1}{4}$ sec.cor..mkd.on brass cap $\frac{1}{4}$ S 8 in N
half and S 17 in S half; from which.

A red pine, 8 ins.in dia., bears N.33°W., 36 lks.,
dist..mkd. $\frac{1}{4}$ S 8 B T.

A red pine, 6 ins.in dia., bears S.15°30'W., 36
lks.dist..mkd. $\frac{1}{4}$ S 17 B T.

44.00 Horse Creek, 12 lks.wide, 6 ins.deep, min.bottom
of Canon, 400 ft.below sec.cor., course N.60°E.

Asc.

80.14 Cor.of secs.7,8,17 and 18.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, red pine, pinon pine, cedar and aspen.

Undergrowth, serviceberry bushes, oak, and sage.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.14 chs.

Subdivision of T.19 S., R.5 E.-Continued.

Chains	West on a true line bet.secs.7 and 18. Over mountainous land,through scattering timber and dense undergrowth. Asc.
30.20	Enter heavy timber and leave dense undergrowth,bears N.and S.
31.75	Leave heavy timber and enter scattering,bears N.and S.
40.00	Set an iron post,3 ft.long,1 in.in dia.,26 ins.in the ground, for $\frac{1}{4}$ Sec.cor..mkd.on brass cap $\frac{1}{4}$ S 7 $^{\circ}$ in N half and S 18 $^{\circ}$ in S half;from which A pinon pine,12 ins.in dia.,bears N.82 $^{\circ}$ W.,53 lks.dist..mkd. $\frac{1}{4}$ S 7 $^{\circ}$ B T. A pinon pine,5 ins.in dia.,bears S.22 $^{\circ}$ W.,39 lks.dist..mkd. $\frac{1}{4}$ S 18 $^{\circ}$ B T.
56.75	Edge of Mesa,bears N,65 $^{\circ}$ E and S.65 $^{\circ}$ W.
61.75	Edge of mesa,100 ft.above $\frac{1}{4}$ sec.cor.,bears N.60 $^{\circ}$ E. and S.60 $^{\circ}$ W.
63.75	Enter heavy timber and leave scattering,bears NE.and SW.
66.75	Bottom of hollow,150 ft.below mesa,course N.
72.75	Enter mesa,bears N.70 $^{\circ}$ W.and S.70 $^{\circ}$ E.
76.75	Enter scattering timber,leave heavy timber,bears N.and S.
84.75	Intersect the West bdy.of Tp.,18.08 chs. South of the cor.of secs.1 and 12,T.19 S.,R.5 E.,which is a lime-srone,20x12x5 ins.above ground,firmlly set and mkd.and witnessed as described by the surveyor general. Set an iron post 3 ft.long,2 ins.in dia.,24 ins.in the ground for closing corner to corner of secs.7 and 18..mkd.on brass cap T 19 S in N half R 4 E S 12 C C S 1 in W half R 5 E S 7 S 18 in E half;from which A red pine,14 ins.in dia.,bears N.74 $^{\circ}$ E.,217 lks.dist..mkd. T 19 S R 5 E S 7 $^{\circ}$ B T.

Subdivision of T. 19 S., R. 5 E. - Continued.

Chains. Asc.

80.00 Set an iron post 3 ft. long, 2 ins. in dia., 24 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, mkd. on brass cap

T 19 S S 6 in. NW.

R 5 E S 5 in NE.

S 8 in SE.; and.

S 7 in SW. quadrants; raise a mound of stone 2

ft. base, $1\frac{1}{2}$ ft. high N. of cor.

Land, mountainous.

Soil, gravelly; 2nd rate.

Timber, cedar and pinon pine.

Undergrowth, sagebrush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth

80.00 chs.

S. $89^{\circ} 51' E.$ on a random line bet. secs. 5 and 8,

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect the N. and S. line 9 lks. S. of the cor. of secs. 4, 5, 8, and 9. Thence I run

N. $89^{\circ} 55' W.$ on a true line bet. secs. 5 and 8,

Over nearly level land; through scattering timber.

Subdivision of T.19 S., R.5 E. -Continued.

- Chains Ascend gently over McEwan Flat
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor., mkd. on brass cap $\frac{1}{4}$ S 5 in N half and S 8 in S half; from which
- An oak, 4 ins. in dia., bears N. 53° W., 176 lks.
dist..mkd. $\frac{1}{4}$ S 5 B T.
- An oak, 5 ins. in dia., bears S. 71° 40' E., 210 lks.
dist..mkd. $\frac{1}{4}$ S 8 B T.
- 43.00 Leave McEwan Flat, bears N. 70° W. and S. 70° E.
Asc. more abruptly.
- 80.00 Cor. of secs. 5, 6, 7 and 8.
Land, mountainous.
soil, gravelly; 3rd rate.
timber, cedar and aspen.
undergrowth, sage brush.
Good grass for grazing.
nearly level land, 80.00 chs.
-
- West on a true line bet. secs. 6 and 7.
over mountainous land, through scattering timber and dense undergrowth.
Asc. along North side of Duck Creek Canon.
- 40.00 Set an iron post, 3 ft. long, 1 in. in dia., 26 ins. in the ground for $\frac{1}{4}$ sec. cor..mkd. on brass cap $\frac{1}{4}$ S 6 in N half and S 7 in S half; from which
- A cedar, 17 ins. in dia., bears N. 88° W., 256 lks.
dist..mkd. $\frac{1}{4}$ S 6 B T.
- A cedar, 6 ins. in dia., bears S. 28° 30' W., 120 lks.
dist..mkd. $\frac{1}{4}$ S 7 B T.
- 49.00 Enter heavy timber, bears N. and S.
- 50.50 Leave timber, bears N. and S.
- 61.50 Enter heavy timber, bears N. and S.

Subdivision of T.19 S., R.5 E-Continued.

chains

62.50 Leave timber, bears N. and S.

65.00 Enter heavy timber, bears N. and S.

77.00 Spring branch, 1 lk. wide, 2 ins. deep, course SE.

84.85 Intersect the West bdy. of Tp., 44.00 S. of the cor. of
secs. 1 and 36, T.19 S., R.5 E., which is a limestone,
20x8x5 ins., firmly set and mkd. and witnessed as
described by the surveyor general.
Set an iron post, 3 ft. long, 2 ins. in dia., 24 ins. in the
ground for closing corner to secs. 6 and 7 mk. on brass
cap

T 19 S in E half

R 4 E sec. 6 C C S 1. in W half

R 5 E S 6 S 7 in E half; from which

An aspen, 5 ins. in dia., bears N. 17° 10' E., 262 lks.
dist..mkd. T 19 S R 5 E S 6 B T.

An aspen, 7 ins. in dia., bears S. 8° 40' E., 363 lks.
dist..mkd. T 19 S R 5 E S 7 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar and aspen.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
84.85 chs.

N. 0° 5' W., on a random line bet. secs. 5 and 6.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

79.76 Intersect the N. bdy. of Tp. 14 lks. E. of the cor. of secs
5, 6, 31 and 32, on N. bdy. of Tp., heretofore described;
thence 1 run

Subdivision of T.19 S., R.5 E.-Continued.

Chains	S.0°9'E., on a true line bet. secs. 5 and 6. Over mountainous land, through heavy timber and dense undergrowth. Asc.
12.00	Leave timber and enter scattering undergrowth, bears NW. and SE.
15.00	Top of spur, 250 ft. above sec. cor., bears NW. and SE. Desc.
23.00	Spring Branch, 2 lks. wide, 2 ins. deep, in bottom of hollow, 150 ft. below spur, course S.60°E. Asc.
35.00	Top of ascent, bears N.70°W. and S.70°E. Thence over McEwan Flat.
39.76	Set an iron post, 3 ft. long, 1 in. in dia., 12 ins. in the ground, on solid rock bottom and surrounded by mound of earth and stone, for $\frac{1}{4}$ sec. cor. mkd. on brass cap $\frac{1}{4}$ S 6 in W. half and S 5 in E. half; dig pits, 18x18x12 ins. N. and S. of post on line, 3 ft. dist.; raise a mound of earth, $3\frac{1}{2}$ ft. base and $1\frac{1}{2}$ ft. high, N. of cor.
49.00	Leave McEwan Flat, bears N.70°W. and S.70°E. Desc.
54.30	Spring Branch, 1 lk. wide, 2 ins. deep, in bottom of hollow, 100 ft. below flat, course S.70°E. Asc.
72.00	Top of ridge, 150 ft. above hollow, bears N.70°W. and S.70°E. Desc.
79.76	Cor. of secs. 5, 6, 7 and 8. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar and pinon pine. Undergrowth, sage brush. Mountainous land, 79.76 chs.

June 23, 1910.

Subdivision of T.19 S., R.5 E.-Continued.

General Description.

This township is generally rough and mountainous and is especially rugged along Ferron Creek and Little Bear Creek; most of the territory drains into Ferron Creek. McEwan flat is a rolling mesa, occupying part of Secs. 3, 4, 5, 8, 9 and 10 and is not as rough as other parts of the township. The township is well watered by Ferron Creek and its tributaries, there being many small streams and springs in various parts of the township. In Section 29, there is a small reservoir which is used most seasons to store water for irrigation purposes, the water being used near the town of Ferron. There is a heavy growth of red pine along the high ridge in the western part of the township and there is considerable cedar, pinon pine, aspen, and mahogany at lower elevation and cottonwoods along the main creeks. The undergrowth is principally sage brush, reinforced in many places by serviceberry and larb and mountain rush. The township is well adapted for grazing purposes. Quite a number of coal outcrops are found in Secs. 13 and 24 and considerable development work has been done in these sections as noted on the line bet. Secs. 13 and 24.

No opening in the coal vein was found in the E. $\frac{1}{2}$ of Sec. 13, but since returning from the field I have been informed by Mr. Lewis Madson, the watchman at the claim, who had erected a flag at the entries, in answer to my request, that an entry that was intended for the claim of Jas. Crawford and M.M. Thomas, was about a quarter of a mile down the Canon from the main tunnel, and about

Subdivision of T. 19 S., R. 5 E. -Continued.

100 ft. north of the creek, the tunnel being 5x6x30 ft. and extending northward. The value of this improvement is \$300.

At 41.05 chs. on the line N. 89° 58' W. between secs. 13 and 24, the mouth of a tunnel 8x9 ft., extending 25 ft. south, bears N. 84° 50' W., 2.90 chs. dist. This coal bed is 8 ft. thick and the coal is a very tough semi-anthracite which resists erosion by the stream remarkably well. Another coal entry, 5x6x10 ft., bears S. 84° 50' W., 3.18 chs. dist. This coal bed is 5 ft. thick, and is a good quality of bituminous coal. The values of these improvements are \$400 and \$100 respectively. Another coal entry, 5x6x5 ft., bears N. 63° W., 8.90 chs.; value of the improvement, \$30. Another coal entry, 7x6x5 ft., value \$35, bears S. 28° E., 6.28 chs. dist. These last two described openings are in the continuation of the coal bed described as bituminous, and overlying the larger bed already described. An old cabin with log roof bears N. 22° W., about 2.00 chs. dist.; value \$20.

The claimants of coal lands and improvements in this vicinity are as follows:

W. half of sec. 13, J. C. Madsen and P. P. Dyreng, Manti, U.
E. half of sec. 13, Jas. Crawford and M. M. Thomas, Manti, U.
W. half of sec. 24, L. F. Becker and L. R. Anderson, Manti, Utah.
E. half of sec. 24, L. C. Kjar and J. C. Kjar, Manti, Utah.

As the veins of coal are nearly horizontal and are fairly uniform in thickness so far as traced, and as the geological strata are in general nearly horizontal and free from unconformities, it is my belief that the coal beds may underlie the whole of this township, and that the entire subdivision should be returned as coal lands. However, if it be deemed inadvisable to reserve land so remote from known outcrops, I should return at least secs. 11, 12, 13, 14, 23, 24, 25, 26, 35, and 36.

An old log cabin by an abandoned sawmill site, claimant unknown, bears S. 62° 40' W., 5.00 chs. from the N.E. cor.

Subdivision of T. 19 S., R. 5 E.-Continued.

of sec. 33.

A reservoir , approximately 22 acres in area, is situated in the S.E quarter and the S.W. quarter of sec. 29, claimant, Ferron Canal Company.

Clarence S. Jarvis,
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Clarence S. Jarvis
 _____, United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of the subdivisions
T. 19 S. R. 6 E., and T. 19 S. R. 5 E.; of Salt Lake Base and Meridian, Utah.
 showing the respective capacities in which they acted:

<u>Quincy Stewart</u>	_____	Chairman.
<u>Karl Keeler, and Verne Nelson.</u>	_____	Chairmen.
<u>James Allerton</u>	_____	Moundman.
<u>Morrille George</u>	_____	Moundman.
<u>Milton Fletcher</u>	_____	Asman.
<u>Earl Spafford</u>	_____	Asman.
<u>Raymond Nelson.</u>	_____	Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Clarence S. Jarvis
 _____, United States Deputy Surveyor, in surveying all
 those parts or portions of the subdivisions of T. 19 S. R. 6 E.; and
T. 19 S. R. 5 E.;

_____ of the Salt
Lake Base and Meridian, State of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for Utah.

<u>Quincy Stewart</u>	_____	Chairman.
<u>Karl Keeler Verne Nelson</u>	_____	Chairmen.
<u>James Allerton</u>	_____	Moundman.
<u>Morrille George</u>	_____	Moundman.
<u>Milton Fletcher</u>	_____	Asman.
<u>Earl Spafford</u>	_____	Asman.
<u>Raymond Nelson</u>	_____	Flagman.

described and sworn to before me this 24
 day of June, 1920 }



Richard W. Worley
 Notary Public

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Clarence S. Jarvis, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from Thomas Hall,
United States Surveyor General for Utah, bearing date of
14 day of November, 1907, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for Utah, the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of the subdivisions of T. 12 S. R. 6 E. and T. 14 S. R. 6 E.

of the Salt Lake
Base and Meridian, in the State of Utah, which are represented in
the attached field notes having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for Utah, and in the specific manner described in the field notes, and
the foregoing are the original field notes of such survey.

Clarence S. Jarvis
United States Deputy Surveyor

subscribed by said Clarence S. Jarvis, and sworn to before me,

this 14 day of Sept., 1910.

U.S.A.G.

Thomas Hall
U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah, April 3, 1910.

The foregoing field notes of the survey of 160 Subdivisional Acres of Township No. 12 South, Range No. 6 East of the Salt Lake Base and Meridian, Utah.

examined by Clarence S. Jarvis,
under the contract No. 316, dated November 1, 1906, having
critically examined, and the necessary corrections and explanations made, the said field notes, and
attest that they described are hereby approved.

Thomas Hall
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in
has been correctly copied from the original notes on file in this office.

United States Surveyor General